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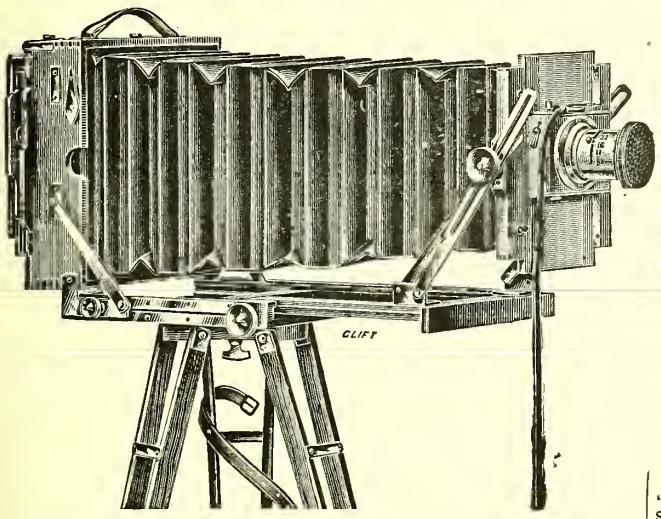
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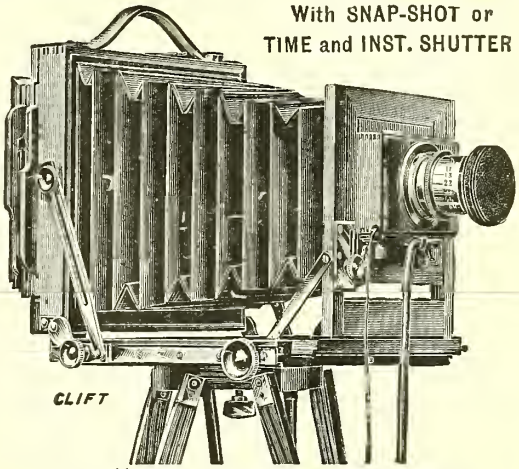


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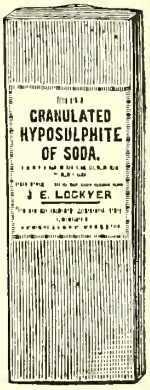
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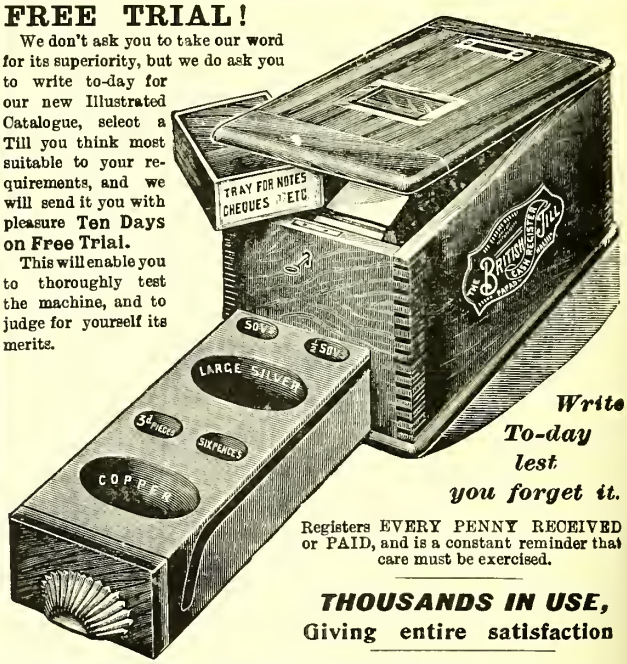
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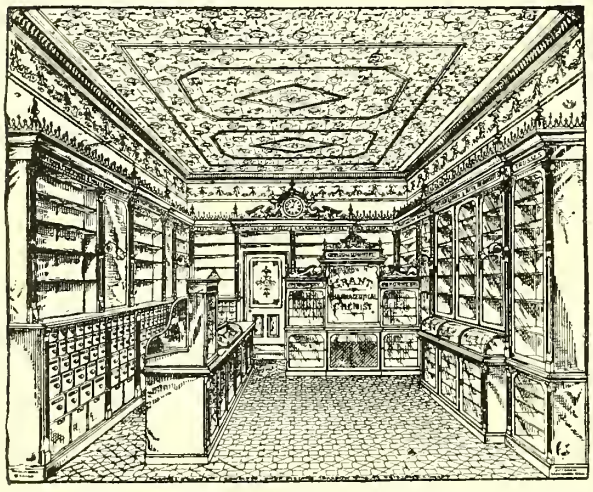
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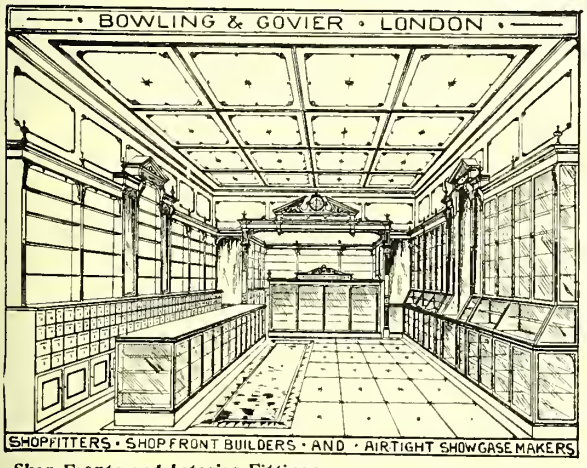
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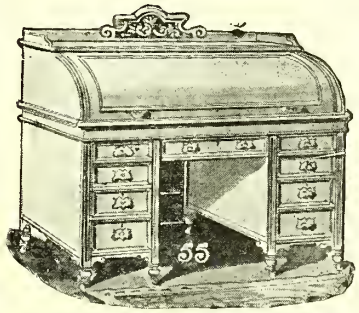
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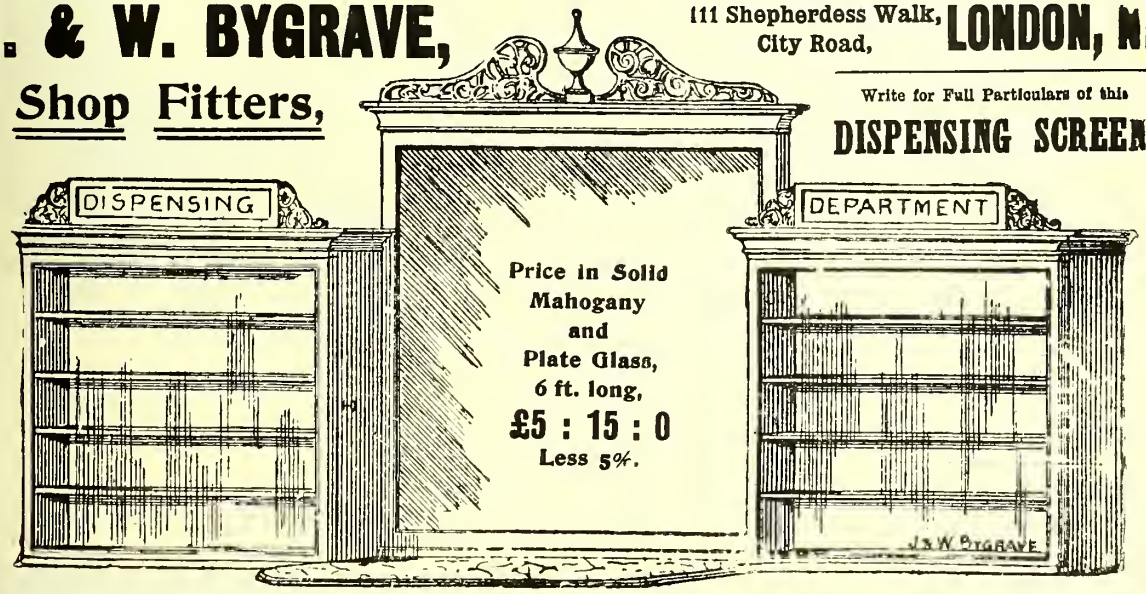
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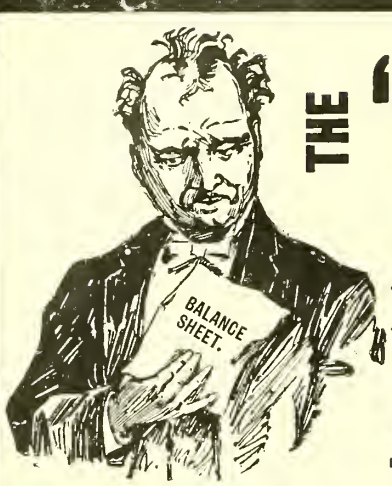
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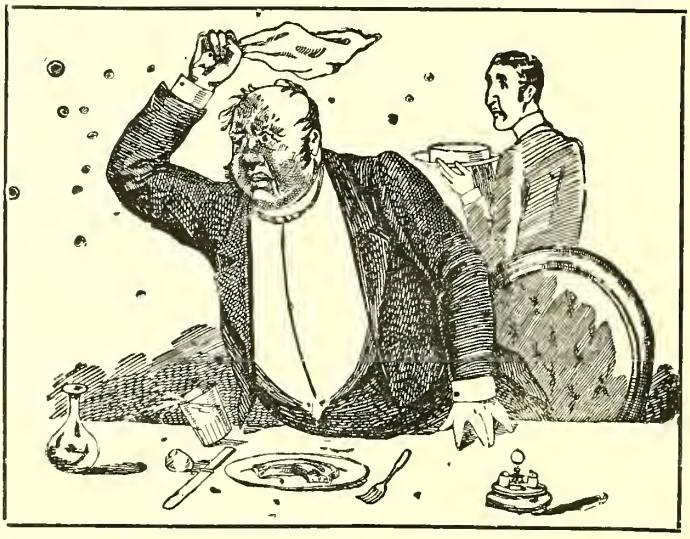
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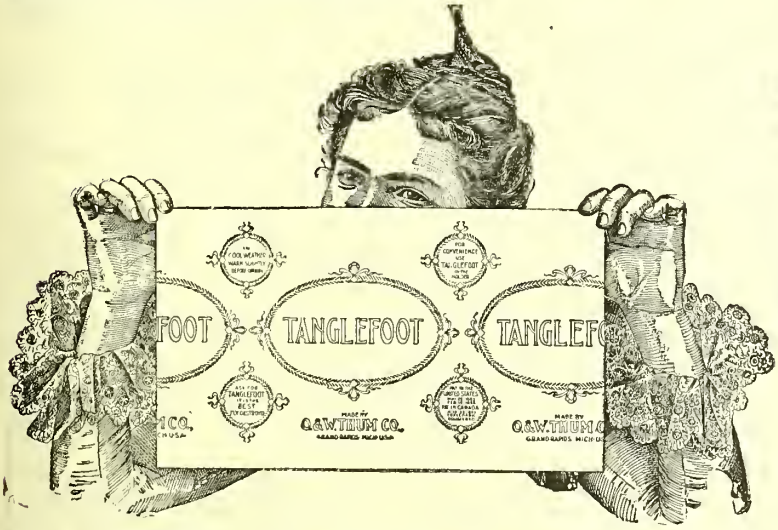
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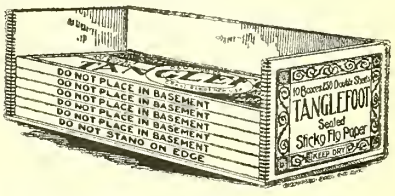
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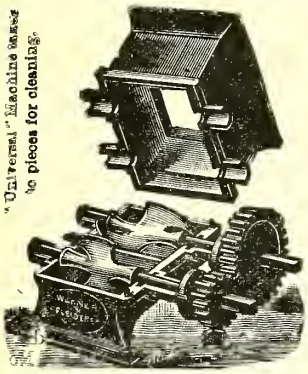
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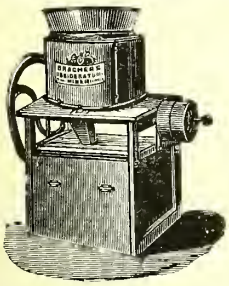
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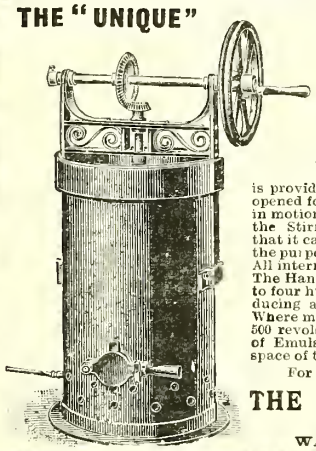
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COD-LIVER OIL MECHANICAL EMULSIFIER,

Fitted with Horne's Improved Portable Stirring Apparatus.

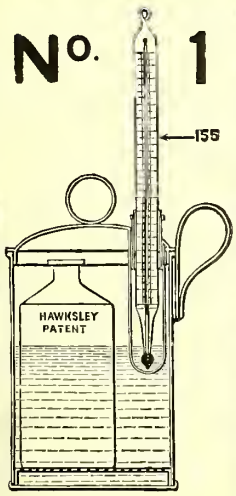
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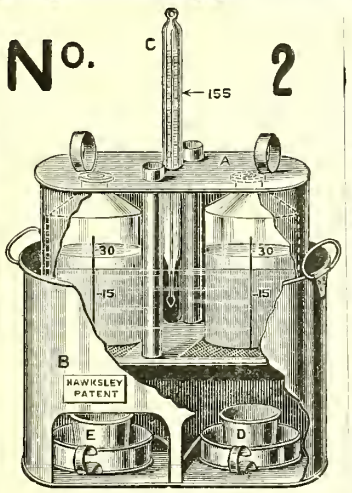


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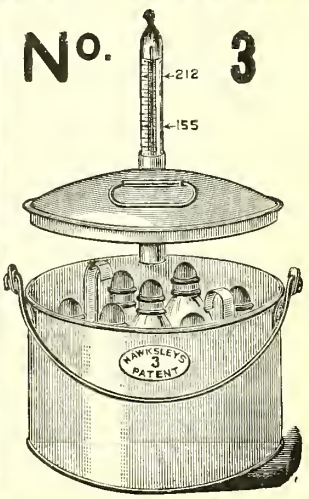
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Illustrated Pamphlets forwarded on application.

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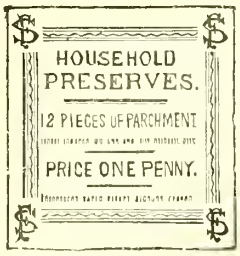
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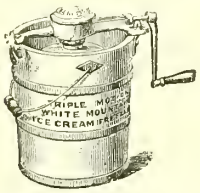
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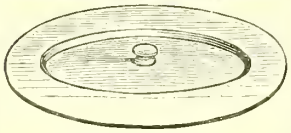
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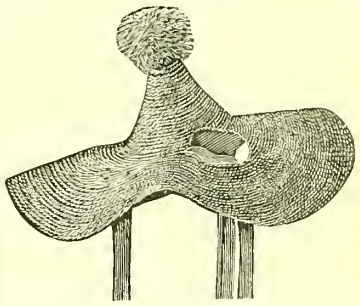
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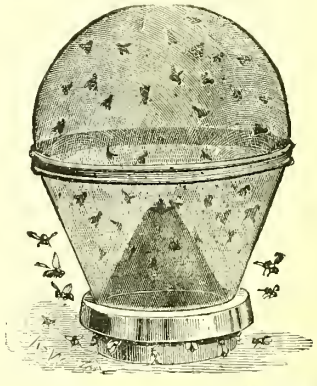
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Roberts & Sheppey
Sanger & Sons
Schutze & Co.
Shirley Bros.
Solport Bros.
Southall Bros. & Barclay
Tidman & Son
Toogood, W.
Wood, Vincent
Woolf, E.

DRUG GRINDERS
Allen, S., & Sons

DRUGS
Baiss Bros. & Stevenson
Bleasdale & Co., Lim.
Lofthouse & Saltmer
Merck, E.
Oppenheimer, Son & Co.
Wyley's, Lim.

DYES
Crawshaw, E., & Co.

EAU DE COLOGNE
Farina, J. M.
Sainsbury, S.
Van Oppen & Co.

EMBROCATION
Day & Sons
Elliman, Sons & Co
Harvey & Co.
Holloway, T., & Co
Post, A. M., Lim.
Sanitas Co., Lim.

ENEMAS
Barclay & Sons, Lim.
Evans, Sons & Co.
Lynch & Co., Lim.
Newbery, F. & Sons
Sanger & Son
Wood, Vincent
Woolley, J., Sons & Co. Lim.

ESSENCES
Allen & Hanbury, Lim.
Barrett & Foster
Burgoyne, Burbidges & Co.
Bush, W. J., & Co. Lim.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Hay, Wm., Lim.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell
Woolley, J., Sons & Co. Lim.

ESSENTIAL OILS
Allen, S., & Sons
Baiss Bros. & Stevenson
Barnett & Foster
Bush, W. J., & Co
Corio, F. A.
Evans, Sons & Co.
Horner & Sons
Jeancard, Gazan & Doumin
London Essence Co.
May & Baker, Lim.
Queleh, H. C.
Ransom, Wm., & Sons
Raynaud, Claude, & Co.
Sanitas Co., Lim.
Stevenson & Howell
Warrick Bros.

ETHER
Duncau, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Tyrer, T., & Co.
White, A., & Sons

EUCALYPTUS OIL
Sanitas Co., Lim.
Sharland & Co.
Tasmanian EucalyptusOil Co.

EXTRACT MEAT
Armour & Co.
Brand & Co.
Liebig Co.
Nelson, G., Dale & Co., Lim.

EXTRACTS, FLUID
Allen & Hanburys
Allen, S., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Merck, E.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son

EXTRACTS, SOLID
Allen, G., & Co.
Nelson, G., Dale & Co., Lim.
Ransom, W., & Son

FEEDING BOTTLES
Barclay & Sons, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons, Lim.
Hovenden & Sons
Kilner Bros.
Lynch & Co., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Youldon, E.

FILTERS
Berkfeld Filter Co., Lim.
Defries, J., & Sons

FLY CATCHERS
Alabastine Co. (British), Lim.,
Chameleon Patents Mfg. Co, Lim.
Ford, Shapland & Co.
Goddon, Lim.
Kay Bros.
Marshalls, Lim.
Mather, W. Lim.
Maw, S., Son & Thompson
Newbery, F., & Sons
Shirley Bros.
Smith, J. H., & Co.
Strong, Christy
Tunbridge & Wright
Westeru Pharmacies Co,

FOOD (Infants' & Invalids.)
Allen & Hanburys
Beanes, E., & Co.
Benger's Food
Bleasdale & Co., Lim.
Bovril, Lim.
Brand & Co.
British Somatose Co., Lim.
Burgoyne, Burbidges & Co.
Coombs' Flour Co., Lim.
Cosenza & Co.
"Fergeal," Squire's
Frame Food Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
King, G., & Co.
Liebig Co.
Nelson, G., Dale & Co., Lim.
Nestle, H.
Parke, Davis & Co.
Plasmon Syndicate, Lim.
Ridge, Dr.
Savory & Moore
Squire's Chemical Food
Vi-Cocoa (Dr. Tibbles')
Virol (Bovril, Lim.)
Worth's Foods Syndicate, Lim.

FRUIT SALT
Eno, J. C., Lim.

GELATINS, GUMS, &c.
Fink, F., & Co.
Meggett, Saml., & Sons, Lim.

GLYCERIN
Price's Candle Co., Lim.

GRANULAR PREP.
Bishop, A., & Sons
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Tyrer, T., & Co., Lim.

HAIR PREP.
Alexandre, L.
Chesebrough Co.
Edwards & Co.
Hopgood, W.
Rayne, H. & M.
Thiellay, E. H.

HERB BEER EXTS.
Newball & Masou
Potter & Clarke

HOMŒOPATHIC
Ashton & Parsons
Epps, J., & Co., Lim.
Keene & Ashwell (Perloids)
Leath & Ross
Watson & Wates

HYPOPHOSPHITES
Duncan, Flockhart & Co
Fellows
Fletcher, Fletcher & Co
Tyrer, T. & Co., Lim.

INHALERS
Hawksley, T. (AmCl)
Krohne & Sesemaun
Lynch & Co., Lim.
Newsholme, G. T. W.

INSECTICIDES
Antikito To let Co.
Bleasdale, Lim.
Fleming's Oil & Chemical Co. Lim.
Jackson, T.
Tunbridge & Wright

LAVENDER WATER
Newbery, F., & Sons (Berdoe's)
Sainsbury, S.

LEMON PEEL, &c.
Southwell, C., & Co.
Toomey, J.

LETTER FILES. INDEX, &c.
Amberg File & Index Co.

LIME JUICE, &c.
Idris & Co., Lim.
Riddle, Alexander, & Co., Lim.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Darton, Gibbs & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
Wood, Vincent

LIQUORICE
Evans, Gray & Hood ("Solazzi")
Evans, Sons & Co (Savarini)
Hillabys, Lim.
Jeancard, Gazan & Doumin
Wilkinson & Co.
Young & Smylie

LIQUORS
Baiss Bros. & Stevenson
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son, & Co., Lim.

LOOFAHS
Solport Bros.

LOTIONS
Edgar's Cronp Lotion

LOZENGES, &c.
Allen & Hanburys
Denoual, J., & Co
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Jackson, T.
Raimes & Co.
Warriek Bros.

LUNG PRESERVERS
Zimmer & Co.

MACHINERY
Bennett, Sons & Shears, Lim.
Colton, Arthur
Gardner, W., & Sons
Melin, C.
Pindar, J. W.
Werner, Pfleiderer & Perkins, Lim.

MAGNESIA
American Magnesia Co.
Bishop, A., & Sons, Lim.
Bleasdale, W., & Co.
Henry, T. & W. (Calcined
Lloyd, T. Howard, & Co.
Washington Chemical Co.

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Burroughs, Wellcome & Co. (Maplets)
Hearon Squire & Francis
Parke, Davis & Co.
Price's Patent Candle Co., Ld
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Taylor, F. H., & Co.

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Day & Sons (Veterinary)

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Tyrer, T., & Co., Lim.

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Boord & Son
Burrough, J., Lim.
Jones & Co. | Phillips, G., & Co.

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Hovenden & Sons
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Lalor (Phosphodyne, &c.)
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Richards, J. M.
White, A. J., Lim.

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Barclay & Sons, Lim.
Bleasdale, Lim.
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Chesebrough Co.
Cook, E., & Co., Lim.
Corbyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
Greensill & Son
Hovenden & Sons
Jeancard, Gazan & Doumin
London Essence Co.
Marshall's, Lim.
Mason, C. E., & Co.
Mulhens, F.
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Pears, A. & F., Lim.
Potter & Clarke (Sachets)
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Raynaud, Claude, & Co.
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Sanger, J., & Sons
Schutze, F., & Co.
Spurway et Cie
Van Oppen & Co.
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Vinolia Co., Lim.
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Harrington Bros.
Houghton, G., & Son
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Lowe, B., & Co.
Mackey, Mackey & Co.
Maxwell, Bayes & Co.
Merck, E.
Newbery, F., & Sons
Raphael, J., & Co. | Ross Lim.
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Shew & Co.
Townsend, J., & Son
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co., Lim.

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Ransom, W., & Son
Stevenson & Howell

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Robbins & Co.
Sanitas Co., Lim.
Tyrer, T., & Co., Lim.

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Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
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Snowdon, Sons, & Co., Ld. (Jelly)
Stern Bros.

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Armour & Co.
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Boehringer, C. F., & Sohne
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Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Fassett & Johnson
Ferris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewlett & Son
Howards & Sons
Kelpion Co.
Kirby, H. & T., & Co., Lim.
Lageman, C.
Lambert Pharmaceal Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Manners & Hopkinson
Martindale, W.
May & Baker, Lim.
Merck, E.
Merrell, Wm. S., Chemical Co.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Philpon, Max
Potter & Clarke, Lim.
Smith, T. & H., & Co.
Squire & Sons
Stern Bros.
Tyrer, T., & Co., Lim.
White, Alfred, & Sons
Wilcox & Co.
Willows, Francis, Butler & Thompson
Woolley, Sons & Co., Lim.
Wyley's, Lim.
Zimmer & Co.

PILL MACHINES
Bennett, Sons & Shears, Lim.
Pindar, J. W.

PILLS, Coated, &c.
Allen & Hanburys, Lim.
Beecham, Thomas
Bleasdale & Co., Lim
Cox, Arthur H., & Co
Davies, Gibbin & Co
Davy, Hill & Son, Yates & Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Holloway, Professor
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Manners & Hopkinson
Parke, Davis & Co.
Scottish Sugar-coated Pill Co.
Wand, S (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyleys, Lim.

PLASTERS
Beiersdorf, P., & Co.
Chesebrough M'f'g. Co.
De St. Dalmas, A.
Evans, Sons & Co.
Mather, W., Lim.
Seabury & Johnson
Solport Bros. (Court)

POLISHING
Bradley & Bourdas (Albatum)
Fordham, W. B., & Sons, Lim.
Oakey, J., & Sons, Lim.
Raimes & Co. (Stockton)

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Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waide
Silverlock, H
Townsend, J.

QUININE
Boehringer, C. F., & Sobne
Buchet, Chas., & Co.
Howards & Sons
Imperial Quinine Co.
Philpon, Max
Zimmer & Co.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward

RESPIRATORS
Wallach Bros.
Zimmer & Co

RUBBER STAMPS
Bond, J. (Crystal Palace)
Richford, E. M.

SACCHARIN
Anglo-Continental Chemical Works, Lim.
Saccharin Corporation, Lim.

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SAUCES, PICKLES
Goodall, Backhouse & Co.

SCHOOLS, &c.
Edinburgh Central School
Glasgow School (J. Lothian)
Imperial College (Davis, F.)
Leeds College of Pharmacy
Liverpool School
London College
London College of Pharmacy for Ladies
Manchester Col. of Pharmacy
MetropolitanCol. of Pharmacy
North of England School
Northern Collegeof Pharmacy
Royal Dispensary (Edinburgh)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
West of Scotland College
Westminster College

SEA SALT
Tidman & Son, Lim.

SEEDS
Potter & Clarke

SELTZOGENES
Geraut, E., & Co.
Thessier, E.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, A., & Co. (A. S. Lloyd's Euxesis)

SHEEP DIP
Fletcher Bros. & Co.
Sanitas Co., Lim.
Tomlinson & Hayward

SHOP FITTERS
Alstrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, J. & W.
Ellison, F. E., & Co., Lim.
Evans, Sons & Co.
Howlett, S., & Son
Josephs, Phil p & Son
Maw, S., Son & Thompso
Parnall & Sons, Lim.
Treble, G., & Son

SIZE
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SOAP
Allen & Hanburys, Lim.
Ayrton & Saunders
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Foster, M. E.
Gibbs. D. & W. (Medicated)
Mulhens, F.
Pears, A. & F., Lim.
Resinol Chemical Co.
Sanitas Co., Lim.
Vinolia Co., Lim.

SPECTACLES &c.
Botwright & Grey
Darton, F., & Co.
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Raphael, J., & Co.

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Cohen, I. & M.
Cresswell Bros. & Schmitz
Phillips, J., & Sons

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STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster
Melin, C.
Stipendum Stopper Co., Lim.

SURGICAL
Bailey, W. H., & Son
Barclay & Sons, Lim.
Betersdorf, P., & Co.
Burgoyne, Burbidges & Co.
Darton, Gibbs & Co.
Davol Rubber Co.
Domen Belts Co.
Eschmann Bros. & Walsh
Fassett & Johnson
Ferris & Co.
Findlay, John J., & Co.
Galen Manufact'g Co., Lim.
Gilbertson, H., & Sons, Lim.
Haywood, J. H.
Krohne & Sesemann
Liverpool Pa ent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Mineralized Rubber Co.
Oppenheimer, Son & Co., Lim.
Rowell & Barstow
Queich, H. C.
Robinson & Sons
Sanitary Wood Wool Co., Lim.
Schutze, F., & Co.
Spongio Piline
Wood, Vincent

STOVES
Clark, S., & Co., Lim.

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Camwal, Lim.
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Tower Tea, Lim.

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Beiersdorf, P., & Co.
Jewsbury & Brown
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
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Chapman, J. C., & Co.
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Barclay & Sons, Lim.
Singleton & Cole, Lim.

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Allen & Hanburys, Lim.
Antikito Toilet Co.
Ayrton & Saunders
Burroughs, Wellcome & Co. (Lanoline)
Crown Crystalline Co.
Dee Oil Co., Lim.
Foster, M. E.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Moseley, D., & Sons
Newbury, F., & Sons
Queich, H. C.
Sanitas Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Vinolia Co., Lim.

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Maw, S., Son & Thompson
Vaccine Association (Lymph)

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Orridge & Co.
Shacklady, J.
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Pavia, F.

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Harvey & Co.
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Pettifer, Stephen & Sons
Sanitas Co., Lim.
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Walker, Troke & Co.
Wyleys Lim.

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Allen, S., & Son
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Bleasdale & Co., Lim.
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Bush, W. J., & Co.
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Evans, Sons & Co.
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Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
London Essence Co.
Macfarlan, J. F.
Manners & Hopkinson
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Smith, B. A., & Co.
Taylor & Colledge
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Woolley, Jas, Sons & Co.
Wyleys, Lim.

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Second Edition.

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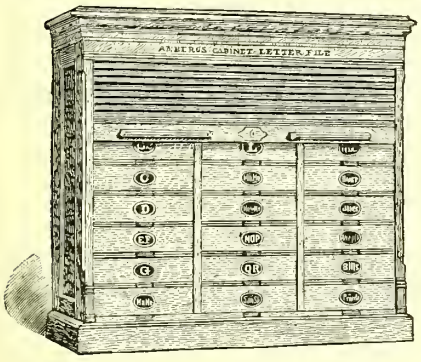
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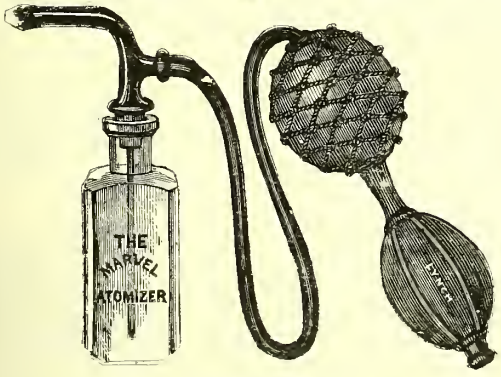
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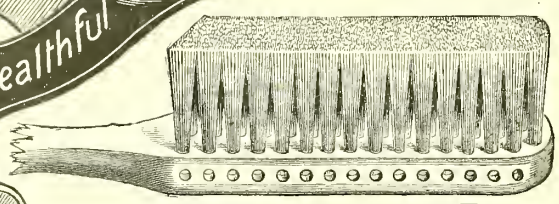
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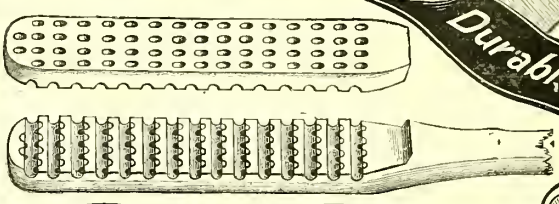
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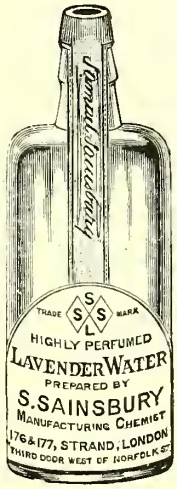
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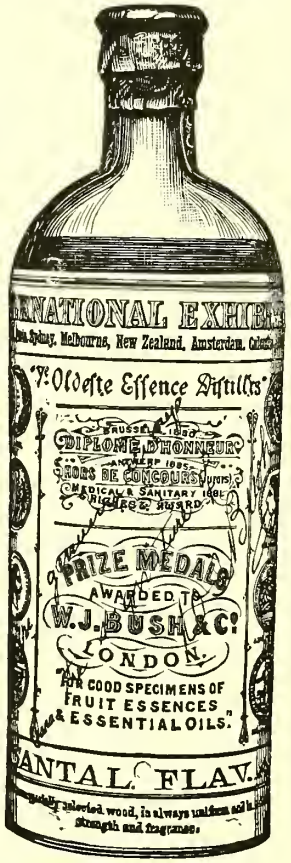
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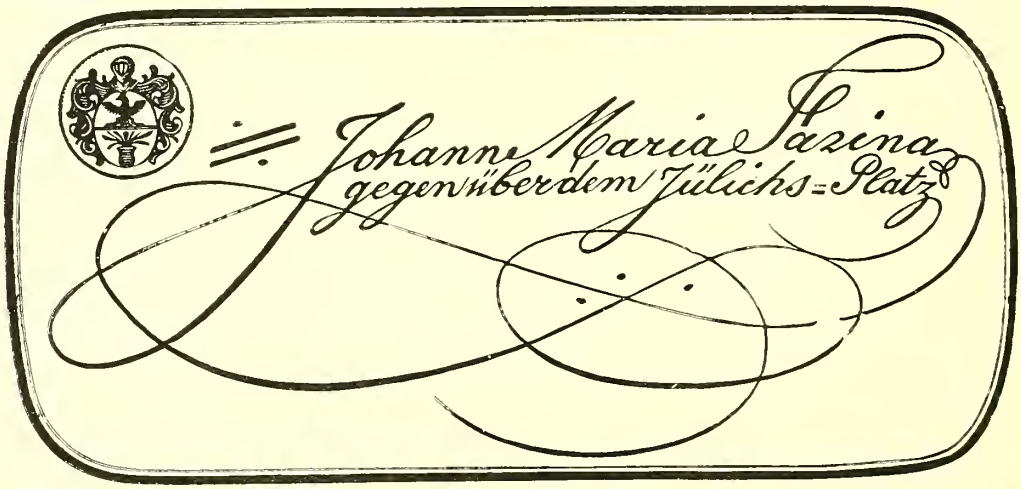
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Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see end of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

The Man who pays 1/- or 3/6

for an advertisement in this Supplement has to pay cash; so he becomes an exceptionally critical person in respect to the value of the advertisement

That is a fair statement. Now, what do we find? Advertisers tell us their results—ten, twenty, thirty or more replies, summed up in the five words—"Suited; don't repeat the ad." And alongside that there is the fact that this Supplement has grown from a modest thing with a dozen advertisements in it to the present proportions.

The growth has been as gradual as phenomenal, which is the best proof that it is based on a sound foundation—extensive circulation and quick returns. When you want to advertise, please remember

"The Chemist and Druggist" Supplement.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 56 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£1,250.—**LONDON, N.W. (Main Thoroughfare).**—Good-class Dispensing and Retail Business; returns, under manager, over £1,250 per annum; *net profit nearly* £500 (proof given); the shop is commodious and handsomely fitted; capital stock, above the average; very desirable residence, held on long lease; valuation and premium for goodwill, to be arranged equitably.

2.—£600.—**LONDON, S.E. (Good-class Suburb).**—Dispensing and Retail Business; returns £600 (present rate); nicely-fitted shop and good stock: modern house, in good repair; about the value of stock and fixtures only required.

3.—£900.—**NORTHERN HEIGHTS.**—Old-established, good-class Retail and Dispensing Business; returns £900; *profit* 50 *per cent. gross*; handsome shop and good stock; very desirable residence, held on lease; about £800 required; vendor retiring.

4.—£500.—**LONDON, S.E. (Market thoroughfare).**—Ready-money Retail and Prescribing Business; returns nearly £500; *profit* £236; the shop is nicely fitted and well stocked; commodious house, held on long lease; valuation of stock and fixtures only required.

5.—£500.—**LONDON (Good-class Suburb).**—Dispensing and Retail Business; returns exceed £500; very well-fitted shop and good stock; price £400, about the value of stock and fixtures.

6.—£900.—**LONDON, N.W.**—Old-established Retail and Dispensing Business; returns between £800 and £900 per annum; the shop is attractive, and is well-fitted and stocked; comfortable residence; price about £700.

7.—£600.—**LONDON, W.**—Very old-established Business; returns exceed £600, *all profitable work*; single-fronted well-fitted shop; good house; reasonable offer wanted.

8.—£700.—**CHATHAM (near).**—Good-class Retail and Dispensing Business, situate in the main street of a good business town; returns £700; *profits 50 per cent. gross*; vendor having purchased a larger business, is disposed to treat an immediate purchaser liberally; particulars on application.

9.—£400.—**EXETER (within easy distance of).**—Unopposed Business; returns exceed £400; *net profit* £150; double-fronted shop; large residence, garden and conservatory; rent £30 yearly; vendor's own property; price £300.

10.—£550.—**DEVONSHIRE.**—Unopposed Business, situate in the centre of town; corner position; returns £550, *net profit* £180; commodious house; rent £35; new lease will be granted; price, valuation of stock and fixtures and small premium.

11.—**HOME COUNTY.**—Very old-established Business, *giving a net profit of about* £250 yearly, for immediate Disposal; the shop is attractive, and is fitted in mahogany; six-roomed house, private entrance; price about £500.

12.—£350.—**STAFFORDSHIRE.**—Old-established Business; returns present rate £350, increasing; several good Proprietaries are included; large double-fronted shop, neatly fitted, good windows; commodious residence, private entrance; large garden; price £200.

13.—£550.—**GLOUCESTERSHIRE (Small Market Town).**—Good-class Retail, Dispensing, and Agricultural trade; returns about £550; *net profit* £200; the shop is nicely fitted and well stocked; house contains 9 rooms; private entrance; good garden; lease if wished; price £450.

14.—£850.—**CARDIFF.**—Shipping and Family trade; returns last year about £850; *profits good*; price £500.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with small capital, from £200 to £500.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom

BUSINESSES THOROUGHLY INVESTIGATED.

VALUATIONS.—The long and varied experience of F. J. BRETT in valuing all classes of Businesses throughout the United Kingdom, together with his ever-increasing connection, renders it desirable that you should secure his services, in order to have your interests well protected. Stocks carefully taken.

£860 returns.—**LONDON, W.**—Good-class Retail, with net profit of over £300; good premises; price £750.

£800 returns.—**LONDON, W.**—Light Retail, with fair Dispensing; profit good; sale solely through ill-health; good corner premises; price £625.

£700 returns.—**LONDON, S.E.**—Family Retail, Prescribing, &c., with appointment worth £60 per annum; price £500.

£1,000 returns.—**STAFFS.**—Old-established Retail, with good Specialities in present hands 25 years; good house and shop; valuation £400 to £500.

£880 returns.—**LAKE DISTRICT.**—General Light Retail, with fair Dispensing and Prescribing; good house, garden, &c.; price £500.

£660 returns.—**SHROPSHIRE.**—Light Retail; good Prescribing and own preparations; nice house; rent £35; price £450.

£775 returns.—**LONDON, N.**—Exceptionally profitable Retail, as half of returns are in own preparations; situation good for up-to-date trade; price £650.

£800 returns.—**WORCESTERSHIRE.**—Unopposed Light Retail Prescribing, &c.; net profit £240; low rent, on lease; price £300.

Mr. BRETT has buyers for large concerns returning from £5,000 to £10,000, who are prepared to pay cash down

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

85 JEWRY ST., FENCHURCH ST., E.C.

Established 1870.

VALUATIONS are in all cases conducted by a member of the firm, and the most careful attention to details, which is so essential, may be relied upon.

1.—**YORKSHIRE.**—Good-class Light Retail Dispensing and Prescribing Business; returns £1,100 with good profits; low rent; entering medical cause of sale: price £750 or offer.

2.—**SURREY.**—First-class Retail and Dispensing Business; returns £1,350; full prices for all but patents; handsomely-fitted shop, well stocked; price £1,150

3.—**WEST OF ENGLAND.**—High-class Drug Store; large town; returns £2,400 under management; low rent, long valuable lease; price £1,500 or offer.

4.—**NORFOLK.**—Light Retail and Prescribing Business; returns over £1,200; expenses small; good house and garden; no heavy trade; price £650.

5.—**SUFFOLK.**—Light Retail and Prescribing Business: returns £450; convenient house, with garden; low rent; on lease; price £300.

6.—**NORFOLK (good market town).**—Retail, Dispensing, and Prescribing Business; returns £750: net profit £250; same hands many years; retiring; good house; price £600.

7.—**CHESHIRE (small town).**—Retail, Dispensing, and Prescribing trade; returns £700, with excellent profits; good house, well-fitted shop; good stock; price £600.

8.—**LEICESTER.**—Good-class Light Retail and Dispensing Business; returns £600, at good prices; rent £32; convenient house, well-fitted shop, heavily stocked; price £520.

9.—**CAMBRIDGE.**—Village Business, very much neglected; population 2,000; no opposition for 4 miles; nice house, large garden; rent £18; valuation only required about £150.

10.—**LONDON, N.**—Death vacancy; returns £500 under management, ought to do £1,000; select Retail and Dispensing; price £300.

UP-TO-DATE CHEMISTS

Should turn to page 36 in this year's CHEMISTS' AND DRUGGISTS' Diary, where we give two reasons why all Chemists should have an annual "STOCKTAKING"

JUDD & MANNERS

CHEMISTS' VALUERS,

Transfer Agents and Accountants,

76 CANNON STREET, LONDON, E.C.

Particulars of either of the following free on application.

BATH.

The first-class Cash Retail and Dispensing Business as carried on for many years by Mr. H. J. Masters, at No. 5 Cheap Street, Bath.

The returns for the last 3 years average nearly £3,000 per annum at good prices. The Pharmacy is modern and handsome, and the stock in-trade is large and well assorted. Price required about £1,500, or valuation terms can be arranged. Full particulars and orders to view upon application to Messrs. Judd & Manners, Agents to the Trustees.

Re the late Mr. D. S. DAVIES.

By order of the Executors.

MESSRS. JUDD & MANNERS are instructed to sell by private treaty as a going concern, the Chemist and Druggist's business situate at 45 Craven Street, London, W. The returns are over £1,100 per annum at very good prices, consisting mainly of Dispensing and Family Retail trade. The premises include a spacious house of 14 rooms and 6 cellars, with private entrance and every convenience, and a handsome modern pharmacy with up-to-date appliances and complete stock.

LONDON, S.E.

We are instructed to offer for immediate sale a good modern Cash Retail and Prescribing Business, returning about £15 a week, yielding nearly £250 clear profit: splendid corner position in main road: trams, &c. pass the door; large, handsome shop, lined throughout with mirrors, and well stocked; electric light; good house, with small lawn, yard, and private entrance: rent £60 lease 9 years; splendid opening for Dentistry, for which the premises are very suitable. Further details on application. [65

CRYSTAL PALACE DISTRICT.

Neglected Light Retail Dispensing and Prescribing Business; returns £550 (net down during illness); rent £45: lease, 16 years to run; good 10-roomed house, bath, &c.: returns easily increased: price £450, of which part can remain at interest; stock and fixtures worth more; well worth seeing. [78

Messrs. JUDD & MANNERS undertake every description of Accountancy. Books Opened, Posted, Investigated, Audited and Certified. Balance Sheets prepared showing the trading results and gross and net profits, &c., for Wholesale or Retail concerns in any part of the United Kingdom. References permitted to past and present Clients, also to the Leading Wholesale Houses in the Trade

THOS. TOMLINSON & SON

Chemists' Transfer Agents & Licensed Valuers,

9 NEW CANNON STREET, MANCHESTER

Valuations conducted with careful attention to detail

Our system in disposing of Businesses for clients is to keep the matter private and confidential as possible, avoiding publicity and "curiosity" inquiries, in many cases having sold to the applicant on our books first notified we knowing just the class of concern he required and was waiting for.

Buyers are advised to place their names on our books (for which no charge is made), stating their requirements, as the best businesses are sold quickly; they by this means get first call upon a suitable concern being placed in our hands, provided we have not one in hand at the moment meeting their want.

Inventoried Stocktakings for ascertaining profit or other purposes.

TERMS ON APPLICATION

Telegraphic Address—"TOMTOM." Telephone National 3965.

J. SHACKLADY,

CHEMISTS' VALUER AND ACCOUNTANT

56 Hanover Street, LIVERPOOL.

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond

ESSENCE MANUFACTURER, desiring to retire from business, wishes to meet honourable, energetic young man with £500, to work with and take an equal Partnership with son (age 24); the business yields good income, and gives practical certainty of competency: applicants please give proof of possessing £500, or no reply; refereuces given if required. Address, "Fortune" (276/11), Office of this Paper.

TO SUBSCRIBERS ABROAD.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BOLTON (Lancashire).—Death cause of sale; valuable centrally-situated Chemists' and Druggists' Business for immediate Disposal; established over 50 years; a number of exceedingly profitable Specialities included in the sale; first-class fittings, stock, &c.; has been in hands of late proprietor over 30 years. Apply, 136 Bradshawgate, Bolton.

BRISTOL (Temple Gate).—To be Sold, through the death of Mr. John Evans, the old-established Chemist's Business, with several valuable Proprietary articles; eleven years' unexpired lease; one of the best positions in Bristol, opposite the joint station. Apply, Evans, Chemist, Temple Gate, Bristol.

CHESHIRE.—Light Retail and Dispensing Business in good position, principal street; old-established; present hands 18 years; returns £1,120; lease; price £500. 275/16, Office of this Paper.

HOME COUNTY.—For immediate Disposal, high-class Dispensing and Light Retail Business; increasing, and yielding a clear net income of £700 yearly; full prices obtained; splendid house and premises; excellent position; strictest investigation allowed; references required; applicants must be prepared with £2,000 cash. Apply, "Urgent" (279/11), Office of this Paper.

KENT (Main Line).—Unopposed Business; neglected; returns £6 weekly; scope for considerable increase; well-fitted shop, good stock; low rent, long lease; splendid house and long garden; price only £170 or valuation. Apply, "Opportunity" (279/10), Office of this Paper.

LINCOLNSHIRE.—In a large town; Light Retail, Dispensing, and Agricultural Business; 11-roomed house, warehouses, and large garden; returns last year £1,487; profitable and capable of development; stock and fixtures worth £800; price £900 inclusive. B. D. V. (279/8), Office of this Paper.

LONDON (on the border of the W.C. District).—Chemist's Business, established 1838; last year's returns £750; net profit over £200; containing an exceptionally well-assorted up-to-date stock, and has a good prescribing connection; large house; portion let off covers all rent, rates, and taxes; lease 7 years; every investigation offered; price £500 cash. A. A. A. (276/2), Office of this Paper.

LONDON, S.E.—Main road; profitable little Business for Disposal; well stocked; increasing trade; to an immediate purchaser it is to be parted with at remarkably low figure; satisfactory reasons for selling; returns £450. Address, "Bargain" (276/27), Office of this Paper.

MANCHESTER, in centre of city, an old-established Chemist's Business; constant stream of traffic; an exceptional opportunity for an up-to-date trade; lease existing; reasonable terms of ingoing as proprietor is retiring. Apply, Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

MIDLANDS.—A good-class Light Mixed Business, well situated in flourishing town, is offered for sale; satisfactory reasons for relinquishing; strictest investigation solicited; turnover £1,100 per annum. For further particulars, apply Mr. Chas. L. Bedford, Clarence Chambers, Corporation Street, Birmingham. Telegrams, "Efficient Birmingham." National Telephone, 1869.

MIDLANDS.—High-class Dispensing Business for Sale; returns over £1,800 at best prices; rent £95; beautifully-fitted shop with expensive stock; best position in town; price about £1,750. Apply, giving banker's and other references, to 277/26, Office of this Paper.

NORTH OF ENGLAND.—A good-class Cash Retail and Dispensing Business, returning nearly £1,300 a year, and making a clear income of about £300; good commanding shop, very nicely fitted and fully stocked; increasing trade and plenty of scope; must be sold at once, so will therefore accept £600 or close prompt offer. Apply, A. L. G. 278), Office of this Paper.

SEASIDE HEALTH-RESORT, LANCASHIRE.—Rising suburban Business; Mixed Light Retail; easily worked; low rent; good reasons for disposal; will accept valuation or any reasonable offer. X. (276/28), Office of this Paper.

SEVERN VALLEY DISTRICT.—For immediate Disposal, an old-established Family and Dispensing Business doing about £1,000, and making a clear profit of more than £300 a year; will accept £875, or sell by valuation to a quick cash buyer. Apply, R. E. B. (278/39), Office of this Paper.

SOUTH OF ENGLAND.—Genuine old-established Light Retail and Dispensing Business, doing good family trade, at good prices, one hour from London; returns nearly £700; rent £60, on lease; good house, and excellent position; terms to be arranged; valuation if required. B. G. (276/12), Office of this Paper.

SOUTHSEA.—Mixed Cash Retail Business; well fitted shop; good living accommodation; £200 all at. Apply, Field & Palmer, 3 King's Road, Southsea. Folio 53 S.

WORCESTERSHIRE.—Light Country Retail, Dispensing, and Prescribing Business; receipts £800, with excellent profits; convenient house, with garden attached; rent only £30; satisfactory reason for leaving; price £475. "Mellis" (279/9), Office of this Paper.

A BARGAIN.—To immediate purchaser, £1,000 (£650 cash) will purchase a Chemist's and Wine and Spirit (free) Business, including stock, fixtures, fittings, trade-utensils; everything but book-debts; estimated value of stocks, fixtures, &c., about £1,200; returns, 1899, about £1,400; reason for selling, owner gone into other trade; business situated centre main street, unrivalled position; rent £90; sole owner and maker of Hornby's Magic Cordial and Hornby's Musk Lavender (original), for which there is a good wholesale and retail trade. purchaser has option of Branch (spoken for if not required) for £250 (£100 cash); estimated value of stock, &c., £300; returns about £450; rent 15s. per week (inclusive of rates), central position. W. Hornby, Talbot Hotel, Whitby, Yorks; or business premises, 63 Ormonde Street, Jarrow-on-Tyne.

A FIRST-CLASS Business for Sale; splendid opportunity for business man; good position and shop recently fitted up. For information and particulars apply to Arthur E. Mason, Chartered Accountant, St. Paul's Chambers, 4 Priory Street, Dudley.

A GENUINE Family Retail and Dispensing Business, about 7 miles out of London, with excellent accommodation, with only moderate opposition; income between £250 and £300; value of stock and fixtures, about £800; will accept £700, or offer; full particulars to applicants bona-fiding their inquiries; proprietor able to give trial; reference to wholesale houses or medical men of district. 276/30, Office of this Paper.

ABOUT £450 will buy a good profitable Family Retail, Dispensing, and Prescribing Business in small healthy country town, South-Eastern county; easy hours and work; net income over £250, which can be considerably increased by addition of Dentistry or other side lines; quick sale necessary; no agents; references required. 277/32, Office of this Paper.

AN old-established Dispensing and Prescribing Business for immediate Disposal, London; main road; suit pushing man on Store lines; could be much increased by adding patents, &c.; one article (not patent) if well worked worth the money asked; long lease; good house and garden. Particulars, W. O., 50 Linnell Road, Peckham.

CHEMIST'S Business for Disposal, in market town near London; established 60 years; in present hands 10 years; returns over £1,500; price £1,000. Address, "Alpha," c/o Messrs. Wright, Layman & Umney, Southwark Street, London.

FOR SALE, old-established Chemist's and Mineral-water Business in good position in High Street, Oxford. Apply, 71 High Street, Oxford.

£80.—**LONDON, E.**—Working suburb, ever-increasing population; large shop main thoroughfare; Retail and Prescribing; splendid opening for Dentistry; been under lady's management, wants enterprising qualified man; nice home, most healthy part; very convenient; unique opportunity for smart beginner; given away at £80, sacrifice. 279/32, Office of this Paper.

£1,000.—Stock, fixtures, goodwill, and utensils-in-trade of a Going Concern; 20 years' under present proprietor, who is retiring; extensive premises, fronting three roads, with gateway; house, seven rooms; shop, double-front; hall entrance, sitting-room, kitchen, three large cellars and warehouses; suitable for large trade. Apply, Owen, Soho Road, Handsworth, Birmingham.

£1,500 returns; net profit £500, after all expenses; rent £42, with good house: thoroughly genuine concern, investigation invited; only bonâ-fide applicants dealt with; ingoing low; an opportunity seldom met with. Apply, X. Y. Z. (164/11), Office of this Paper.

BUSINESSES FOR DISPOSAL.

(*continued*).

£300.—Light Retail, Dispensing, and Prescribing Business; no Patents; established 16 years; no opposition; Seaside; rent £40 for 10-roomed house, or freehold premises may he purchased on easy terms. "Rother" (277/27), Office of this Paper.

£600.—Genuine old-established Chemist's Retail and Dispensing Business; returns £750 under management; good stock; proprietor retiring; investigation invited; market town, Norfolk. "Chemicus," c/o Sanger & Sons, Winsley Street, Oxford Street.

BUSINESSES WANTED.

3s. 6d. for 50 words or less: 6d. for every 10 words beyond.

SOUTH OF ENGLAND.—Advertiser, having sold business in North by doctor's orders, wishes to purchase one in South of England; capital £1,050; must have rest, so prefer one either large enough for good Assistant, or small Country concern, with easy hours; Kent, Sussex, Hants, or West of England. J. D. M., 6 Bovill Road, Honor Oak Park, Kent.

A GOOD price will he paid for informatiou as to a good opening for a Chemist in the suburbs of Loudon if acted upon; or a neglected business withiu 20 miles of London would be entertained if satisfactory investigation is allowed aud there is room for iucrease; cash ready. "Genuine" (278/4), Office of this Paper.

WANTED, a good-class Retail and Dispensing Business, making a net profit of not less than £150 or £200 per annum, and capable of being increased; must have good house attached and be in a prominent positiou and bear thorough investigation. "Business" (278/36), Office of this Paper.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

DARTFORD.—A superior double-fronted Shop, as a Chemist, in a thickly-populated district of about 4 000; good position; 10 minutes from station and town; no other Chemist within a mile; six rooms and offices; rent £30; first-class opportunity. Apply, Thomas Moller, Architect, Dartford.

SHOPS in splendid position, Hither Green; good cellarage, back entrances, and very convenient houses; good openings for Chemist; seven out of 10 let; fronts will be put in to suit tenants. Apply to Scudamore, Central Market, Hither Green Lane, Lewisham.

TO Chemists.—Business premises and house, at Brighton, facing the Aquarium and new pier; possession September 29; a high-class trade carried on for 50 years; no premium or valuation. Apply, Parsons & Son, F.S.I., Auctioneers and Estate Agents, 163 North Street, Brighton, and 88 Church Road, Hove.

TENDERS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

CARDIFF UNION.

THE Guardians invite for six months' supply of Drugs, &c., for the Union Workhouse Dispensary and Outdoor Dispensary, 52 Charles Street, Cardiff.

Persons desiring to quote must send their current price list of Drugs to me not later than 6 P.M., on Wednesday, 5th September, 1900, and must state the maximum discount they will be prepared to allow off the list prices of the Drugs to be supplied.

ARTHUR J. HARRIS, Clerk.

Union Offices, Queen Chambers, Cardiff,
20th August, 1900.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

The Publisher of "The Chemist and Druggist" wishes it to be understood that he is not in any way responsible in respect of Advertisements answers to which are to be sent to this Office.

Assistants applying for any of the Situations advertised below are recommended in no case to send Original Testimonials. If they send Photographs or any Documents which they wish to have returned, a Stamped Addressed Envelope should be enclosed.

Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

ALTRINCHAM.—Qualified Junior, end of August, in first-class Dispensing and Family Retail; in or out doors. Apply, statiug age, height, experience, references, salary required, and enclose photo, personal interview preferred, J. W. Reed, 44 Railway Street, Altrincham.

ANDOVER.—Wanted, immediately, Juuior Assistant principally for Dispeusing, in country business; indoors; half-day weekly; time for study if required. Particulars and salary required to J. Bieuvenu, Chemist, Andover.

BARNSLEY.—Junior Assistant (2 kept), unqualified, outdoors, for Mixed Retail and Dispeusing Business; aged 24 to 30; satisfactory references essential; weekly half-holiday; no night or Sunday duty; state in first letter, age, height, experience, salary required, give references, enclose photo (returnable) if possible. Nash, Pharmaceutical Chemist, 2 Queen Street, Barnsley.

BATH.—A Junior Assistant required; one accustomed to Dispensing preferred; short hours. D. Hughes, 14 New Bond Street, Bath.

BATH.—About the middle of September, an active indoor Assistant, about 22, well up in Dispensing. Please state age, height, salary required and references, with photo if convenient, to R. Dunn, Chemist, Bath.

BIRMINGHAM.—Junior or Improver wanted; state terms. F. H. Prosser, 112 Spring Hill, Birmingham.

BIRMINGHAM.—Qualified Assistant, at once, for good-class Family and Dispensing business. State age, references, salary, and full particulars, with photo (if convenient), to McIsaac & Co., 165 Hagley Road, Edgbaston, Birmingham.

BRIGHTON—Qualified Assistaot, accustomed to high-class business (iodoors). Full particulars of experience, stating salary required and enclosing photo, to W. H. Gibson, Metropole Pharmacy, King's Road, Brighton.

BURSLEM.—Assistaut wanted, for country Wholesale and Retail; of good experience, and a smart and efficieut man at the counter; outdoors: a permanency to a good man; please state age, height, salary required, married or single. 198 Waterloo Road, Burslem.

CANTERBURY.—Qualified Assistant, about 22 to 25 years of age wanted by September 3; hours of business, 8 to 8, Thursday 8 to 1, Saturdays, 8 to 9; no Sunday duty. Apply, stating usual particulars and salary required, enclosing carte (to he returned), to Edwin J. Biggleston, Chemist, Canterbury.

CAPE COLONY.—Managing Assistant required; well posted up Photographic business; good appearance and address; aged about 25; qualified; well up in other branches of the business; salary, 1st year £13 per month; 2nd year, £14; 3rd year, £15; room provided. Candidates, who must hold undeniable references, address, "Rand," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CAPE COLONY.—Required, a thoroughly competent Assistant, reliable, and of sober habits; salary, £15 per month, with free room ou premises, for a term of 3 years; second-class passage paid out conditionally; first-class references required. Address, "Burg," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London.

CAPE COLONY.—Good Assistant required, at once, well up and reliable in every respect; honesty and sobriety most essential; single man preferred; aged about 25; qualified; salary £12 per month to commence with, and board and lodging; permanent berth for 3 or 4 years; half expenses paid out. Address "Cape Colony," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CAPE COLONY.—Assistant, immediately; must be single, possess the Minor qualification, about 25 years of age, and have had good experience in a Country business; also a good and neat Dispenser; steady and sober habits indispensable; salary, 1st year, £140 per annum; 2nd year, £150; 3rd year, £160; sleeping accommodation provided or equivalent (outdoors), but to find own board; second-class passage paid out, conditional on a 3 years' agreement being signed. Address, "Cape," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CASTLE CARY (Somerset).—Married man wanted, to Manage country Chemist and Stationery business; permanency; live on premises. Apply, M., 34 Paragon, Bath.

CHATHAM.—Wanted immediately, qualified man as Assistant; about 22; indoors; one accustomed to good-class Dispensing and Retail (with knowledge of Photography preferred). Apply, stating age, height, and salary required, and references, to Stokes, 22 High Street, Old Brompton, Chatham.

CHINA.—Wanted, by firm doing large business in the Far East, a thoroughly competent Assistant; qualification desirable, but not essential; liberal salary to suitable man; 4 years' agreement; passage paid both ways. Address, "China," c/o Messrs. Horner & Sons, Mitre Square, E.C.

CLIFTON.—A Junior Assistant required in a high-class Dispensing business; two kept; easy hours (indoors); must be steady and accurate; one with knowledge of Photographic trade preferred; suit student requiring more experience in Dispensing. Apply, with full particulars, salary required, and enclose photo, to B. H. F. (275/14), Office of this Paper.

DARTFORD.—Wanted, a qualified Assistant (outdoors) for country business. State particulars of experience, salary required, &c., to J. Cann, Pharmaceutical Chemist, Dartford.

EAST GRINSTEAD.—Wanted, two smart Juniors (indoors) accustomed to good-class Dispensing, Photographic, and quick counter trade; hours short; also an improver; age, height, salary required, when disengaged; photo to be returned. Dixon, Chemist, East Grinstead.

ELY.—Junior Assistant (outdoors) for Mixed country business. Apply, stating usual particulars and salary required, to Howard, Chemist, Ely.

EXETER.—Junior, for good-class Family and Dispensing business; half-day off weekly. State age, references, salary, and full particulars, with photo (if convenient), to Holman, Ham & Co., 74 High Street, Exeter.

FOREST GATE, E.—Improver or Junior; outdoors; good-class Light Retail Dispensing and Photographic business; two Assistants kept; state age, height, salary required, and experience. Apply personally, or enclose photo, to Harold Mitchell, 56 Woodgrange Road, Forest Gate.

GLOUCESTER.—Wanted, Junior Assistant (outdoors) for Light Retail and Dispensing business; state age, height, salary, with photo (to be returned), and reference. Apply, Ward, Chemist, Gloucester.

HEREFORD.—Junior Assistant, about 20, for Light Retail and Dispensing; outdoors. Apply, with usual particulars, to Walker, Hereford.

HOUNSLOW.—Wanted, Junior Assistant, indoors, for light retail and dispensing business; no Sunday duty; half-holiday weekly. W. Venning, 135 High Street, Hounslow, Middlesex.

HULL.—Wanted, Junior Assistant, about 20; short hours, 8 to 7, Thursdays 1; no Sunday duty; live in; Store trade. Apply, with all particulars, Wm. Cussons (Lim.), Hull.

LEICESTER.—Junior or Improver required, early in September; one with a knowledge of Photography preferred; indoors. Apply, with full particulars, to H. W. Clear, Photographic Chemist, 66 Belgrave Gate, Leicester.

LONDON, S.W.—Assistant wanted for smart Retail and Dispensing. Apply, stating references, and salary required (indoors), to F., 78 Coldharbour Lane, Brixton, S.W.

LONDON, W.—Wanted, at once, a smart energetic Assistant for high-class Store business; outdoors: salary 35s. Apply, personally if possible, or send photo (to be returned), and particulars to Bruce's Drug Stores, Ealing.

LONDON, N.—Qualified Assistant wanted by middle of September; must be capable of taking sole charge; about 23 preferred; salary £70 (indoors); annual rise. Harcombe Cuff, M.P.S., New Southgate, N.

LONDON, S.E.—Competent Assistant, not over 25, required, at once (indoors), in good-class Retail and Dispensing business. W. Phillipps & Co., 215 and 217 Lewisham High Road, S.E.

LONDON, W.—Assistant, as Disponser (indoors), with good experience; qualified preferred. Apply, personally, if possible, if by letter give all particulars, to J. G. Shirley & Son, 2 Westbourne Grove, Bayswater, W.

LONDON, S.W.—The end of September, Junior Assistant, with good Dispensing experience, and accustomed to first-class business (indoors); healthy situation. Applicants will please send full particulars as to salary required, experience, &c., to J. Babb, Pharmaceutical Chemist, 36 High Street, Wimbledon, S.W.

LONDON, W.—Junior Assistant wanted, indoors, for middle September; qualifications not necessary if thoroughly competent. Send usual particulars, photo, and references, to Jackson & Co., Chemists, Church Road, Acton, W.

LONDON, N.W.—Wanted, an indoor Junior Assistant: must be an accurate and quick Dispenser and good counterman. Apply, with fullest particulars, to Pelham C. Young, 229 High Road, Kilburn, N.W.

LONDON, N.—Junior Assistant wanted, immediately; salary to commence 25s.; close 3 o'clock one day weekly; no Sunday duty: time for study if required. Apply, Carlton's Drug Stores (Lim.), 433 Green Lanes, Harringay, N.

LONDON, S.E.—Wanted, Junior or Improver (indoors), aged about 21 or 22 years; good opportunity for gaining all-round experience in Family and Dispensing business. Apply, Cadman & Co., Chemists, 47 Montpelier Vale, Blackheath, London, S.E.

LONDON, N.E.—Wanted, at once, a Junior Part-time, for few weeks: suitable to one reading for October exam. Apply, J. L. Davies, 411 Mare Street, Hackney.

LONDON, S.W.—Wanted, immediately, a qualified gentlemanly Assistant, as Dispenser, with good Retail experience. Apply, personally, or send fullest particulars, with salary required, and photo, to Charles White, Pharm. Chemist, 45 Buckingham Palace Road, London, S.W. Vacancy also for gentlemanly youth as Apprentice.

LONDON, S.W.—By middle of September or earlier, competent Assistant, for a good-class Retail and Dispensing. Write or call, Keith Loogstaff, Ye Fulham Chymist, 811 Fulham Road (a little beyond Walham Green).

LONDON, S.W.—Wanted, Junior Assistant, about 21, indoors, for good-class Dispensing and Retail business. Apply personally, or with full particulars, to Lloyd, 267 King's Road, Chelsea, S.W.

LONDON, S.W.—In the West End, where 3 are kept, indoors, a qualified man, the 2nd week in September. Full particulars to "Superabound," 7 Pall Mall East, S.W.

LONDON.—Vacancy for smart unqualified Assistant for Counter; permanency and good salary offered; good character indispensable. Give usual particulars to "Sodium," c/o Baiss Bros. & Stevenson, 4 Jewry Street, E.C.

LONDON, N.W.—Outdoors; wanted, at once, smart Junior Assistant for best class Cash business; no Sunday duty; salary and commission. Full particulars of experience, age, height, salary required, &c., to "Manager" (279/3), Office of this Paper.

LONDON.—Wanted, an indoor Assistant, about 21; must be a good Dispenser. Apply personally, or send photo. and state age, height, and salary required, to Burdeu & Co., 41 Store Street, Bedford Square, W.C.

LONDON (WEST-END).—Wanted, early in September, smart Assistant, for high-class Dispensing and Retail business. Apply, personally or by letter, with fullest particulars, salary required, and photo, to Burden, Duke Street, Grosvenor Square. Also vacancy in October for gentlemanly youth (who must have passed Preliminary equivalent), as outdoor Apprentice.

LONDON, S.W.—Wanted, immediately, a Junior for Light Retail and Dispensing; indoors; salary £50; one with a knowledge of Photography preferred. "Beta," c/o Messrs. Hodgkinson's, 101 Whitecross Street, E.C.

LONDON—Competent Assistant (qualified) required; good opening for a suitable applicant; good hours and liberal salary; weekly holiday. Full particulars as to past experience, &c., to "Potassium" c/o Baiss Bros. & Stevenson, 4 Jewry Street, E.C.

LONDON, S.E.—Two smart, qualified Assistants wanted, about 30 and 40. Apply to T. R. Kent, M.P.S., 103 Westminster Bridge Road, S.E.

LONDON.—Wanted, immediately, a Manager; also an Assistant (outdoors); applicants must have good references and be sober men; liberal salaries paid. Apply to Henry Squire, 61 Goodge Street, London, W.

LOWESTOFT.—Junior Assistant, early in October, for good-class Retail and Dispensing. Apply, with full particulars, to Coleman, Chemist, South Lowestoft.

LUTTERWORTH.—Junior or Improver; aged 18 to 20; indoors; short hours; half-day holiday Friday. Apply, stating height and salary required, to Arthur Buswell, High Street, Lutterworth.

MARGATE.—Junior Assistant in old-established business, Dispensing and ordinary Retail. State age, experience, height, and salary (in or out doors), with photo, to Wootton & Son, Chemists, Margate.

SITUATIONS OPEN—*cont.*

RETAIL—continued.

MEXBOROUGH.—Dyson (Limited), Chemists, require the services of a young Assistant, to Manage Branch; easy hours; must he quick and accurate. Reply, stating age, salary, experience, and enclose photo, which will he returned.

NORWICH.—Junior; aged about 20; outdoors. Apply, stating age, experience, reference, and salary, to G. Betts, Pharmaceutical Chemist, 25 The Walk, Norwich.

NOTTINGHAM.—Wanted, Junior or Improver; one used to good Mixed business. State age, height, salary required, &c., Thos. Wilson, Lenton, Nottingham.

OAKENGATES.—Wanted at once, Improver or Turnover for Retail and Dispensing business; indoors; half-holiday weekly: no Sunday duty. Apply, with particulars and photo if possible, to A. H. Ferriday, The Pharmacy, Oakengates, Shropshire.

OXFORD.—Immediately, a good Junior, for high-class Retail and Dispensing. State full particulars and references, G. Claridge Druce, Ph. Chemist, High Street, Oxford.

RIPLEY (Surrey).—Manager, qualified, for small Mixed country business; easy hours; house (furnished), rent, rates, and lighting free. Please send copy of references, and state salary required, Allenby, Ripley, Surrey.

ROTHERHAM.—Wanted, experienced Junior Assistant, accustomed to Country trade; time for study; state salary required (indoors). Bolsover, Chemist, Rotherham.

RYDE, I.W.—An Assistant, about 24 years of age; accustomed to good-class Retail and Dispensing business. Apply, stating age, height, and salary, to Tenison Smith, Ryde, I W.

ST. LEONARDS-ON-SEA.—Junior Assistant wanted (indoors), for Light Retail and Dispensing. State age, height, references, and salary required, enclosing photo, to T. W. Jones, 71 Bohemia Road, St. Leonards-on-Sea.

SINGAPORE.—Assistant wanted, for a Dispensary in Singapore; must have had 5 years' experience as Assistant, and well conversant with the details of the business; qualified preferred; aged about 25; 3 years' engagement; rising salary. State age and experience to "Jael" (277/22), Office of this Paper.

SOUTH AFRICA.—A reliable Assistant, holding Minor qualifications, required at once; aged about 24; second-class passage paid out; salary, first year £8, second year £10, third year £12; indoors; 3 years' engagement. Apply, "Export," Southall Bros. & Barclay (Limited), Birmingham.

SOUTH AFRICA.—Qualified Assistants, open to accept situations in South Africa, should apply to Lennon (Lim.), 75 Leadenhall Street, London, E.C., who frequently hear of vacancies.

SOUTH AFRICA (Healthy Town).—Assistant required, for early part of March; must be thoroughly reliable, competent, and preference given to one with Wholesale experience: steady and sober habits are most essential; aged about 23; single, and of good health; Minor qualification; salary, £12 10s. per month first year, £13 10s second year, £15 third year, payable monthly; without board, and outdoors; second-class passage paid out, with personal expenses on board; 3 years' agreement. Address, "South Africa," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

STREATHAM, S.W.—A smart Junior required, immediately; one able to take charge; indoors; comfortable home; easy hours. Apply with particulars, or personally, to Lovely & Co., Streatham Common, S.W.

TORQUAY.—Assistant wanted, with good knowledge of Dispensing and General business; practical acquaintance with Photographic trade desirable. Kindly give in first letter full particulars as to experience, age, height, &c., salary indoors, and enclose photo, Fredk. March, 34 Fleet Street, Torquay.

WESTON-SUPER-MARE.—Wanted, an Assistant (indoors) accustomed to good-class Retail and Dispensing; qualified preferred. State age, salary, reference, and when at liberty, G. S. Ball, Weston-super-Mare.

WESTON-SUPER-MARE.—Wanted, a Junior; indoors; 2 kept; accustomed to good-class Retail and Dispensing business. State age, height, reference, salary, and enclose photo, to Edwin Norman, Pharmacist, 35 High Street, Weston-super-Mare.

WEYMOUTH.—Junior (indoors) wanted. Apply, with full particulars, to Gibbs, Chemist, Weymouth.

TO Students.—Comfortable lodgings, situate between Muter's and Wills'; terms very reasonable. Call or write to 15 Methley Street, Kennington Park, London, S.E.

AT once, competent Assistant wanted (indoors), aged about 30; one only kept; qualification not essential; some Photographic experience desirable; half-holiday weekly, no Sunday or night duty. Send particulars of experience, with photo and two references, to Ebbage (late Owles), Dispensing Chemist, Great Yarmouth. Also vacancy for an Apprentice.

DISPENSER to Surgeon, until the end of year; would suit a man requiring time for study. Full particulars to "Medical," 17 Battersea Rise, Clapham Common, S.W.

IMMEDIATELY, smart Junior; outdoors; Photography an advantage; good salary to suitable man. Apply, personally or by letter, to "Manager," Henry's Cash Drug Stores, North End, Croydon.

IMMEDIATELY, an Assistant for about three weeks in a good-class Retail, Dispensing, and Photographic business in the suburbs. Full particulars to "Statim" (278/13), Office of this Paper.

LOCUM.—Alfred Jones, Chemist, Portslade-by-Sea, requires, at once, or in a week or two, a smart, trustworthy, qualified Assistant, to take charge for a fortnight. Kindly send photo (to be returned), age, height, salary (outdoors), and recent reference, stating when disengaged.

LOCUM-TENENS Dispenser (Surgeon's) wanted for Sept. 17th for 2 weeks. State salary and references to B., 22 Mortimer Street, Herne Bay.

MANAGER wanted, must be qualified, and a good Counterman, to take charge of Branch; married or single; outdoor, state salary. Apply to Dr. Ambrose, 1 The Mount, Whitechapel Road, E.

MANAGER, temporary or with view to purchase, small Retail Branch in East London, at once. Send full particulars to "Ph.C." (279/33), Office of this Paper.

OUTDOORS; good Country business; no Sunday duty; must be reliable and trustworthy; 20 to 23 years of age. State experience and salary required, 278/26, Office of this Paper.

QUALIFIED Assistant wanted, immediately, for Light Country business; one with knowledge of Photographic requisites and Wine and Spirit trade preferred. Enclose references and photo, stating age and salary required, to T. Brown, Angate Street, Wolsingham R.S.O., co. Durham.

QUALIFIED Senior wanted for good-class Family and Agricultural business, in the early part of October; Eastern county; outdoors; about 28 years of age; easy hours; liberal salary, to energetic man seeking a permanency. Apply, "Lindum" (277/25), Office of this Paper.

QUALIFIED, or otherwise, for Mixed business. Apply, stating age, experience, and salary. Purdy, Derby Villa, Coatham, Redcar.

TO manage Retail in open Surgery and Dispense; meals in, sleep out; close 5 Thursday, Sundays alternate evenings only. Apply, personally or by letter, Dr. Dugon, South Bermondsey, London, S.E.

UNQUALIFIED Dispenser as Locum wanted, from September 1 to 15 inclusive; indoors. Apply, "Dispenser," 32 Bedford Hill, Balham.

WANTED.—Part-time Assistant for two evenings a week only, principally to put up stock; a student from one of the London schools preferred. W. H. B., c/o Messrs. Willows & Co., 40 Aldersgate Street, London, E.C.

WANTED for seaside and country Mixed business, an Assistant (married) to live on premises; must be experienced, good Prescriber, &c.; Churchman preferred; only those seeking a permanency and able to give first-class references need apply. Applications, stating salary required, to "Kodak" (276/33), Office of this Paper.

WANTED, October 1, a smart Junior Assistant, for a quick business in the main thoroughfare of the town; easy hours, weekly half holiday and no Sunday duty; a young man, having just served his apprenticeship, would be treated with. Apply, stating references, salary required, &c., to F. Tunbridge, Chemist, Reading.

CIVIL SERVICE COMMISSION. FORTHCOMING EXAMINATION.

JUNIOR Assistant, in the department of the War Office Chemist, Woolwich (20 to 25), 30th August; the date specified is the latest at which applications can be received; they must be made on forms to be obtained, with particulars, from the Secretary, Civil Service Commission, London, S.W.

COVENTRY AND WARWICKSHIRE HOSPITAL.

DISPENSER wanted; Minor qualification; salary £100 per annum; duties, daily Dispensing for In and Out Patients; no Sunday evening duty. Applications, with copies of recent testimonials, to be sent to the undersigned on or before September 5, from whom further particulars can be obtained.

ELLIS E. ORISP,
Secretary.

Coventry: August 22, 1900.

WHOLESALE.

OPPORTUNITY for Country Traveller, with about £400, wishing to set up for himself an established Druggists' Sundries Business, with Speciality, with connection in Midlands, South and West of England, and Wales, for stock at valuation. G. (279/13), Office of this Paper.

TO French-speaking Pharmacists.—A Vacancy will shortly occur on the Travelling continental staff of a London Manufacturing Firm, for a capable man, of sound experience and judgment; must be a good linguist and know continental methods and ways; state experience, salary, age. Apply 161/11, Office of this Paper.

WANTED, young man to prepare Wet Stock, pack Dry Goods, and have charge of small Wholesale Drug business; salary 30s. per week; state age, if married, and photo to "Disinfectant" (162/65), Office of this Paper.

WANTED, by a leading firm of Manufacturing Chemists, in London, a gentleman with good Pharmaceutical and Medical knowledge, to assist principal in Literary work, and to represent the firm generally; must not object to outdoor work or Travelling; should be well educated and active, and have had good training; a knowledge of German would be an advantage. State full particulars to Z. E. 148, c/o Deacon's, Leadenhall Street, E.C.

WANTED, a Traveller, with good connection, to take on a commission for the sale of Hedakene, a new remedy for Headache, Neuralgia, and Toothache, which has just been protected; liberal terms to a good man, who will be well supported. Address, Hedakene (Limited), 73 Station Street, Birmingham.

WANTED.—A competent Pharmacist, with some capacity for management, is required in a Wholesale house; Major qualification essential; only those who have had first-class experience (preferably Wholesale and Retail) and who are capable business men need apply; very full particulars must be given in the first application. Apply, "Major," c/o T. Dixon's Advertisement Offices, 195 Oxford Street, W.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM-TENENS.—Oharlesworth, M.P.S., Ardilaun, Frizinghall. Disengaged.

AS qualified Assistant or Manager; outdoors; London. 275/34, Office of this Paper.

LOCUM; disengaged September 1; terms moderate. 278/37, Office of this Paper.

QUALIFIED Locum; 2 or 3 weeks' engagement from Sept. 1st. Woolcock, Ohard.

ASSISTANT, Part-time; 10 years' experience; good references. Goodwin, Oannock.

LOCUM; 37; qualified; disengaged. "Ohemist," 6 Brook Street, Ashton-in-Makerfield.

LOCUM; 28; disengaged all September; good experience. Pearson, 6 Acre Lane, Brixton.

ASSISTANT; time for study; moderate hours. "Radix," 138 Arlington Road, N.W.

ASSISTANT; tall; 27; good references. "Lex," c/o Blackband, Calceby, Alford, Lincs.

UNQUALIFIED; aged 32; good references. L., 4 Devonshire Terrace, Stanwix, Carlisle.

TEMPORARY; registered; elderly. A. Y., c/o Mr. Osborne, High Street, Bruton, Somerset.

ASSISTANT; 25; 5 ft. 10 in.; good references; disengaged 30th. S. Smith, Uplands, Truro.

LOCUM, M.P.S.; town or country; disengaged. William Smith, 12 Westfield Road, Surbiton.

DISPENSER; 21; unqualified; outdoors; also assist at Counter. W. Henderson, Keswick, Oumb.

LOCUM; qualified; disengaged last three weeks of September. Elphinstone, 84 Broad Street, Reading.

LOCUM or Manager; London and country experience. "Minor," Shirley Park Stores, Southampton.

MANAGER; qualified; elderly; disengaged; outdoors. "Bismuth," 218 Beeches Road, West Bromwich.

JUNIOR; 22; tall; 6 years' London and provincial experience. "Student," 69 Dale Street, Lancaster.

LADY DISPENSER (qualified), desires engagement. K., 5 Fairfax Road, South Hampstead, London.

MANAGER or Assistant; qualified; 48; single. "Chemist," 10 Crown Street, Wellington, Shropshire.

DISPENSER; qualified; temporary or permanent; Surgeon or Hospital. W. B. Rivers Willson, Oxford.

ASSISTANT; unqualified; 25; good reference; outdoors. "Phenacetin," 71 Booth Street West, Manchester.

MANAGER; tall; qualified; 27; good experience and references; disengaged. 275/38, Office of this Paper.

LONDON.—Dispenser seeks part-time berth with Chemist or Doctor; outdoors. L. N. D., 30 Brook Street, Tavistock.

MANAGER; qualified; 25; good-class City and Provincial experience; no Stores. 274/8, Office of this Paper.

SENIOR or Manager; qualified; 10 years' experience; good Dispenser; aged 28. H. Abraham, Wainfleet, Lincs.

MANAGER or Branch; qualified; good references; 15 years' experience. "Sodium" (279/26), Office of this Paper.

LOCUM or Dispenser; Chemist or Surgeon; qualified; disengaged Sept. 8. W., 16 Lidyard Road, Archway Road, N.

LADY Dispenser (trained nurse) requires situation in business or with Medical man. 60 St. George's Road, Pimlico, S.W.

DISPENSER (Lady), Apothecaries' Hall certificate, seeks engagement. "Ward," Scotts Hill, Southminster, Essex.

ASSISTANT; 20; 6 ft.; good address; excellent references; abstainer. "Picrotoxin" (275/19), Office of this Paper.

WANTED, post as Dispenser; unqualified; 7 years' experience. J. S. Taverner, 47 Howard Road, Olarendon Park, Leicester.

ASSISTANT: good experience; 27; married; good Counterman. E. T. R., c/o Lakeman & Co., Church Lane, Leytonstone, N.E.

CAPE.—Manager or Senior; excellent training, experience, ability; qualified; 25. "Phenylhydrazine" (277/12), Office of this Paper.

LOCUM or Manager: 40; qualified; good experience; disengaged; London or Eastern Counties preferred. 275/39, Office of this Paper.

MANAGER or Senior; 29; disengaged second week in September; excellent references. Thomas, 13 Rose Lane, Monley Hill, Liverpool.

FOR October; qualified; 23; permanency in first-class Country business; outdoor; highest references. Apply, 265/11, Office of this Paper.

JUNIOR; 3½ years' experience; passed preliminary; disengaged; good references; tall; Yorkshire or Coast preferred. 7 Cunliffe Villas, Bradford.

AS Dispenser to Medical man or Hospital; Apothecaries' Hall certificate; aged 25; disengaged. S. R. S., c/o Lawrence, London Street, Farringdon, Berks.

BRANCH-MANAGER or otherwise; qualified; 39; outdoors; Mixed Country; disengaged Sept. 3. M., 31 Windsor Street, Trecynon, Aberdare.

MANAGER; London or suburbs; qualified; married; energetic, and experienced; unexceptionable references. "Delta" (278/2), Office of this Paper.

MANAGER; qualified; good references, and long experience; understands all branches, including "Store trade"; Town or country. 277/5, Office of this Paper.

STORES situation, in large town; outdoors; qualified: 30; experienced Store Manager; married; no family. "Yorkshireman" (274/37), Office of this Paper.

AS Junior, where two or more are kept; 21; 5 ft. 9 in.; 2 years' London experience; Scotch apprenticeship; disengaged Sept. 16. 273/37, Office of this Paper.

FRENCH Assistant desires a place in an English Pharmacy in London, object being to learn the language. Address, G. Delavergne, 116 Rue de la Boétie, Paris.

SITUATIONS WANTED—*cont.*

RETAIL—continued.

NOTTINGHAM (or district)—As Assistant or Manager; Dispenser; good Prescriber; disengaged September. Address, "Benzoin' (277/6), Office of this Paper.

MANAGER, small business, or Dispenser; qualified; middle-aged; varied experience; disengaged; moderate salary. "Minor," 10 Clarence Place, Docks, Cardiff.

ASSISTANT Branch Manager, or Surgeon's Dispenser; disengaged; married; good all-round experience with Chemist and Doctors. "Dispenser," Stour Row, Shafteshury.

MANAGER; London preferred; qualified; Chemist's son; excellent London and provincial experience; good Prescriber, Photography. 'Dermatol" (156/40), Office of this Paper.

MANAGER or Senior; 30; married; compstent Dispenser, Prescriber, Extractor; quick Countsrman; well recommended. Apply, "Ponus," 78 St. John's Road, Clapham Junction, S.W.

ASSISTANT or Manager; 39; first-class experience, Apothecaries, Pharmaceutical, and Dental (London) qualifications; disengsged 'September 17. F. C. S, 21 Wood Street, Bolton, Lancs.

MANAGER or Senior; qualified: 29; married; Retail; Dispensing; Photography; reasonable hours; no Stores; pleasant neighbourhood; disengaged Sept. 31st. H. S. Lean, 7 Sybil Road. Liverpool.

BRANCH Manager or Locum; qualified; middle-aged; single; Prescriber; Extractor, on Dental Register: good experience and references; disengaged. "Chemist," Woodbine House, Wolsingham, R.S.O., co. Durham.

LADY Dispenser, Apothecaries' Hall certificate, experienced in hospital and private practice, desires evening engagement with Doctor or Chemist; accustomed to charge of Surgery. "Alpha," 83 Bedford Road, Clapham, S.W.

CHEMIST, 25, now managing good Agricultural and Proprietary Retail, seeks post requiring greater energy; London and country experience. Please send terms and particulars to "Confidence" (275/3), Office of this Paper.

CHEMIST'S Assistant; not qualified: 14 years' experience, Compounding, Photography, Veterinary, Oils and Colours; good Counter assistant, with good address; excellent testimonials. Apply, stating salary offered, J. H. (276/17), Office of this Paper.

AS Manager or Dispenser; Extractor, Prescriber; 18 years' London experience, City, West-end Suburbs and up to-date Pharmacies and Drug-stores; having experience as Representative of Wholesale Liverpool, Manchester, London, &c. "Fides" (279/22), Office of this Paper.

WHOLESALE.

DRUGS.—Wanted, by gentleman, position as Market Clerk in Import Merchants. B., 49 Gloucester Road, Regent's Park.

TO make and superintend racking Proprietaries. Toilet Preparations; Wholesale or Stores; qualified. 276/39, Office of this Paper.

OFFICE or Warehouse (office and provinces preferred); 7 years' experience, Wholesale. Address, 274/7, Office of this Paper.

AS Assistant in the Wholesale, with view to representation; well up in the Retail. Apply, C. Vyner, St. Catherine Street, Gloncester.

ADVERTISER, 12 years practical Manager in Packed Drug house, seeks similar engagement, or as Traveller. H., 28 Penn Road Villas, Holloway, N.

REPRESENTATIVE of high-class Proprietary Perfume house desires additional Commission; London twelve miles. J. J. (274/6), Office of this Paper.

IRELAND.—Young man, 27, wants Travellership; 3 years travelling; 8 years' Drug and Sundry experience; salary, expenses. 276/40, Office of this Paper.

WANTED, situation as Traveller, or good commissions accepted; excellent character and testimonials. Address, "Oocain" (275/5), Office of this Paper.

GENTLEMAN, of varied experience, seeks position of trnst; smart business man; accustomed to control of hands; excellent character; aged 27. "Qnalified" (278/23), Office of this Paper.

GENTLEMAN (26), with several years' experience as Manager of Laboratory of a large firm of Manufacturing Chemists, doing Home and Foreign trade, desires similar position, or would travel. 279/27, Office of this Paper.

A WELL connected gentleman, aged 38, 15 years a Medical Assistaut, and well up in the Drug business, able to influence and greatly increase clients owing to a capital connection, desires a Travellership to Wholesale House of Chemists or Instrument Makers; the very highest testimonials and references. Replies to H. Clarke, Alton, Stoke-on-Trent, Staffs.

YOUNG and experienced Salesman, holding high position in one of the large Provincial Drug Stores, expert Drug valuer, and competent in all branches of the Sundry trades, desires a Traveller's position where industry and perseverance would be suitably acknowledged; open to break new ground with any good speciality. "Scotsman" (279/18), Office of this Paper.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

WE are willing to Advertise in that List of yours provided you quote us a reasonable rate. Daisy Ltd., Mammoth Works, Leeds.

PRICE LISTS for winter trade.—Get them in hand at once. Write for price to Roberts, Son & Co. (Limited), Hackney Road, London. E., stating number of pages required and quantity that can be taken in one or two years.

THE PANSY MANUFACTURING CO, 196 Seymour Street, London. N.W., being large importers, offer Pure Turkish Otto de Rose at 18s per oz., in 1-oz. bottles and upwards, carriage paid cash with order; best Sandalwood Oil at 13s. 6d. per lb. Finest quality Oil Lemon, 4s., and all other Essential Oils at lowest prices. Cheapest packers in London for Wholesale and Export.

SULPHUR-TABLETS and Sulphur and Sarsaparilla Tablets, in 7-lb. hinged and labelled boxes: 2 cwt. 33s. cwt., carriage paid; 1 cwt. 34s.; ½ cwt. 18s., 28 lbs. 10s., carriage forward, prices and show-cards free; Sticky Fly.-papers, your own name, 5s. gross, 5-gross lots carriage paid; Disinfecting Shells, 4s. 3d. gross, 5-gross lots £1 Christy & Co. (late White), Chemist, Leicester.

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N.B.—Cucumbers actually enter into the composition of this article.

"THE CHEMIST & DRUGGIST"

For AUGUST 25, 1900.

SUMMARY OF CONTENTS.

Mr. Ralph Shorrock, Darwen, figures this week as the Pharmaceutical Veteran (p. 343).

Otto of Roses is exceptionally cheap just now; the reason why is explained on p. 350.

We report sixteen poisoning cases on p. 334. Carbolic acid was concerned in five of the cases.

An Abstract from the report of the Bengal Government cinchona-plantations and quinine-factory in Sikkim is given on p. 365.

Professor H. H. Rusby criticises the suggestion to substitute the complicated terms used in botany for simpler expressions (p. 353).

The Nominations to the French Order of the Legion of Honour just issued contain several names well known to pharmacists (p. 339).

The Physical Characteristics of eleven organic silver compounds recently introduced into medicine are given on page 358, with notes which make the compilation useful for dispensers.

The question as to what is included in the expression "liquid preparations of carbolic and its homologues" is discussed on p. 348. We show that it is possible it was not intended to include as much as it does.

Chemists take a good deal of interest in company matters, and many chemists' businesses are carried on under limited-liability lines. On this account we review the alterations in company law which come into operation with the passing of the Companies Act, 1900 (p. 349).

Six Hundred pharmaceutical chemists, chemists and druggists, and persons connected with pharmacy want to know the reason why the Pharmaceutical Society are abolishing the shilling fee payable by candidates unable to attend an examination through illness. A petition is being sent to the Privy Council (p. 344).

The Leicestershire Analyst reviews the subject of alum baking-powders in his report (p. 336).

Our Compounder-correspondent at Pretoria gives more instructive details of his dispensing work (p. 345).

Professor Harvey Gibson, an examiner in botany at Bloomsbury Square, adorns the pharmaceutical aviary (p. 346).

The Discussion as to how assistants' troubles should be remedied is continued on p. 359, and is taken part in by both masters and assistants.

English Refined Camphor has been advanced ½*d.* per lb. Chamomiles, menthol, almond oil, and thymol are also dearer. Turpentine has dropped 3*s.* on the week (p. 361).

The New Edition of the German Pharmacopœia was published this week. We commence a critical review of its contents (p. 354), and note the principal changes on p. 351.

Is Hydrogen or Oxygen to be taken as the unit for atomic weights? The International Commission favours oxygen, but there are reasons for retaining hydrogen (p. 353).

A Committee has been appointed in the United States to confer with the manufacturers, bacteriologists, and therapeutists, to ascertain if it is feasible to introduce antitoxin serums into the United States Pharmacopœia (p. 352).

The Grocers' Federation are reminding grocers' associations that carbolic acid has been scheduled as a poison, and urges them to get guarantees from the manufacturers that their liquid-disinfectants do not come within the meaning of the Order (p. 334).

The List of Awards at the Paris Exhibition was made known on Saturday last. We publish the names of those successful exhibitors in the classes and groups identified with pharmacy, and give an illustration of the diploma presented to each (p. 340).

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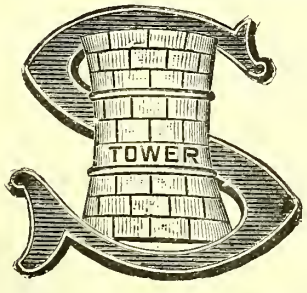
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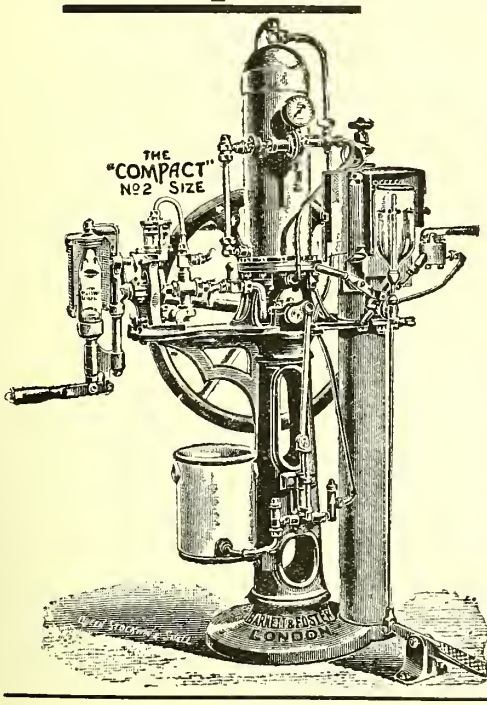
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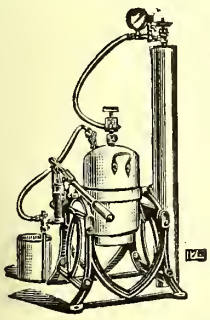
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No. 2 „ „	Filling Machine for Ball-Stoppered Bottles, with Syrup Pump ...	47 2
No. 2 „ „	both above Filling Machines ... Fast and Loose Pulleys extra.	50 2
No. 3 „ „	Syphon Filling Machine	33 0
No. 3 „ „	Filling Machine, with Syrup Pump, for Ball-Stoppered Bottles ...	35 2

NOTE.—Syrup Pump can be fitted to Syphon Filler if required.

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This is a cheap apparatus for use with Compressed Carbonic Acid Gas for serving Soda Water on the counter by means of the draught arm.

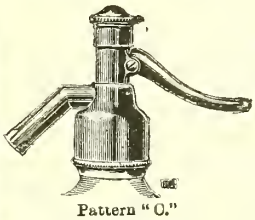
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Pattern "A"

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LONG LEVER.

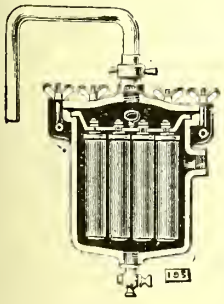
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Complete Catalogue of these Filters Post Free.

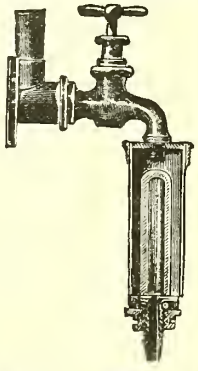
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Output per hour.		
No. 1.— 20 gallons ...	£1 17	6
No. 3— 60 „ ...	3 12	6
No. 5.—100 „ ...	5 10	0
No. 9.—180 „ ...	7 10	0
No. 15.—300 „ ...	12 10	0

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Complete with Screw-down Cock and Glass Case for Filter Tube,

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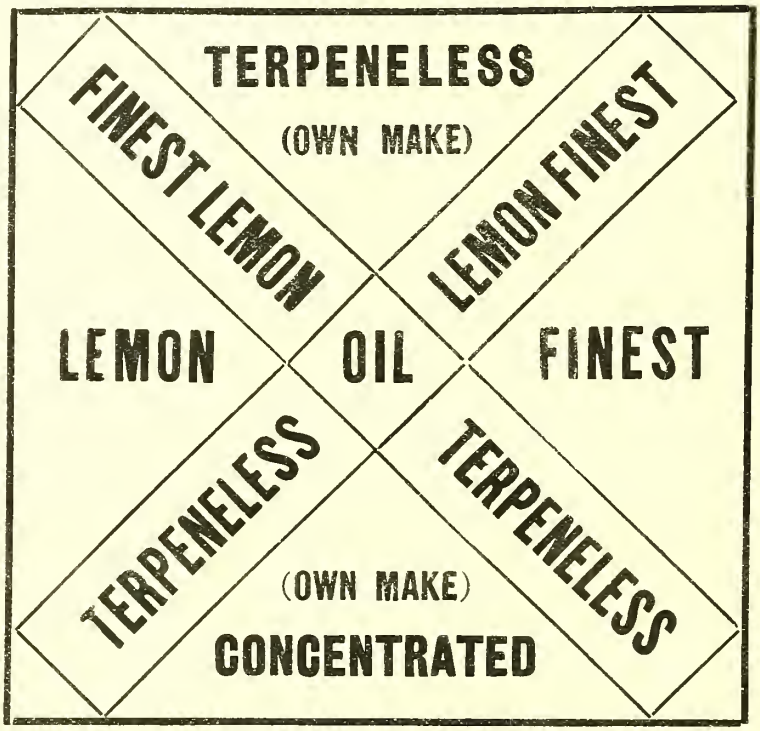
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S.E.

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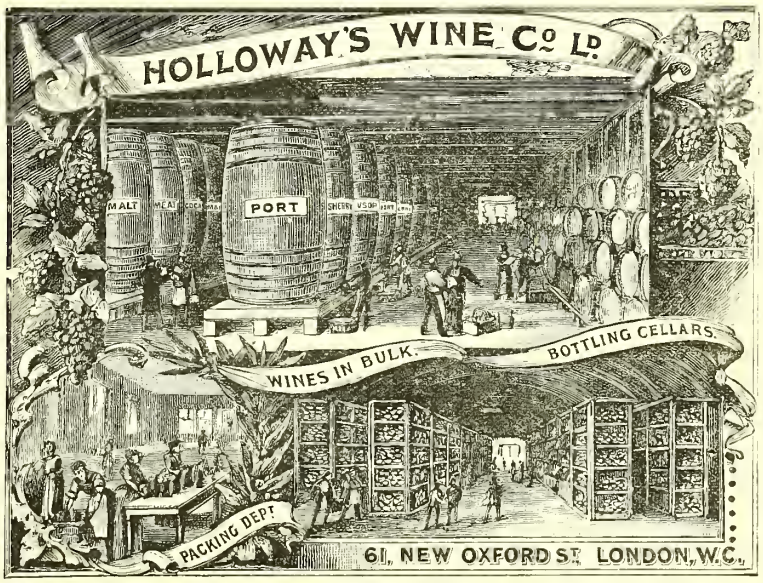
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LEMON SQUASH
AND
LIME JUICE CORDIAL
(Filtered Bright).

	Lemon Squash.	Lime Juice Cordial.
Reputed Pint Square White Glass Stoppered Bots.	3/9	4/- per doz.
Do. Quart " " " "	6/-	6/6 "
Do. " " Green Glass " "	6/-	5/9 "
Do. Pint Round Bots.	3/6	3/9 "
Do. Quart " "	5/6	5/9 "

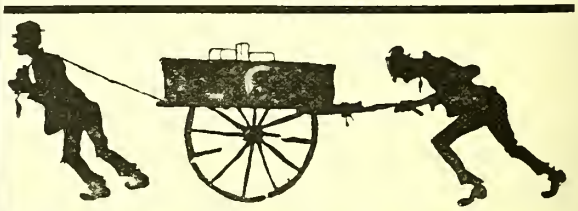
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Less than 12 dozen Pints " " .. .. 3d. " "

IN BULK 1/9 PER GALLON. *Delivery free in London.*

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STANDARDISED TO B.P. 898.

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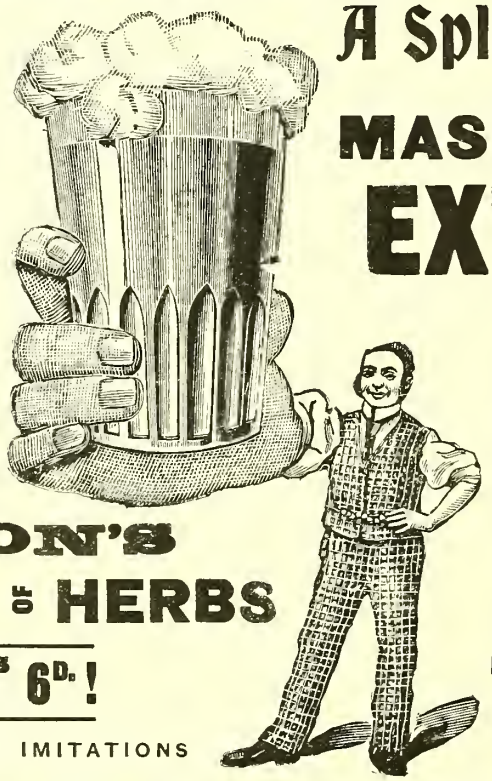
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Always Refreshing.
Always Acceptable.

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"Believe me, yours very truly, L . . . S . . . ."

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A sweetening agent far more powerful and more delicate in flavour than saccharin, and about 600 times sweeter than sugar. It undergoes no change in the system, and is therefore of great value in gout, glycosuria, diabetes, obesity, and other conditions where sugar is contra-indicated. Each 1/4 gr. is equivalent in sweetening power to a lump of best loaf sugar, and is used in the same way . . . . . .



Burroughs Wellcome and Co.,
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Supplied in bottles of 100 and 200.

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Red	3/6 ,,	8/- ,,	13/4 ,,	28/- ,,	24/6 ,,

SECOND QUALITY.

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BENGER'S FOOD
For Infants
Invalids and the Aged

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AND ALL WHOLESALE HOUSES AND SHIPPERS.

The Ideal Tonic Wine.

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ESTABLISHED 1859.

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Terms for advertising may be obtained on application to the Publisher, *C. & D.*, 42 Cannon Street, London, E.C.

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NEW BOOKS.

THE NEW edition of our "Veterinary Counter Practice" is now in the hands of the binders. It has been thoroughly revised by a competent veterinary surgeon, and brought well up to date. It is a better, bigger, and brighter book than before, but the price will remain the same, 3*s.* 6*d.*, or by post, 3*s.* 10*d.*

The new edition of "The Art of Dispensing" is printed. It contains 500 pages, so that it is almost twice the size of previous editions. The new edition is encyclopædic in its comprehensiveness of difficulties which occur at the dispensing-counter. It has been practically rewritten from cover to cover, and at least three-fourths of the matter is new. The Editor has taken special pains to increase the educational value of the book, so as to make it even more useful to students of pharmacy. It will be ready for delivery in a few days, and we are booking orders for it at 6*s.* post free.

Summary.

A NOVEL CURE for dyspepsia is mentioned on p. 361.

PARTICULARS of further congresses to be held in Paris are given on p. 339.

SOME INSTRUCTIVE EXTRACTS from recent consular reports are given on p. 366.

THE way the municipal milk is sterilised at St. Helens is stated on p. 353.

THE NATIVE POPULATION of Johannesburg is not to be allowed to buy spirit at all (p. 338).

OTTO OF ROSES is exceptionally cheap just now; the reason why is explained on p. 350.

MR. RALPH SHORROCK, Darwen, figures this week as a Pharmaceutical Veteran (p. 343).

A LEGAL DEFINITION of "ganga" has been given by the Chief Justice of Ceylon p. 338).

WE report sixteen poisoning-cases on p. 334. Carbolic acid was concerned in five of the cases.

THE LEICESTERSHIRE ANALYST reviews the subject of alum baking-powders in his report (p. 336).

OUR COMPOUNDER CORRESPONDENT at Pretoria gives more instructive details of his dispensing work (p. 345).

PROFESSOR HARVEY GIBSON, an examiner in botany at Bloomsbury Square, adorns the pharmaceutical aviary (p. 346).

AN ABSTRACT from the report of the Bengal Government cinchona-plantations and quinine-factory in Sikkim is given on p. 365.

PROFESSOR H. H. RUSBY criticises the suggestion to substitute the complicated terms used in botany for simpler expressions (p. 353).

THE NOMINATIONS to the French Order of the Legion of Honour just issued contain several names well-known to pharmacists (p. 339).

THE DISCUSSION as to how assistants' troubles can be remedied is continued on p. 359, and is taken part in by both masters and assistants.

ENGLISH REFINED CAMPHOR has been advanced ½*d.* per lb. Chamomiles, menthol, almond oil, and thymol are also dearer. Turpentine has dropped 3*s.* since last week (p. 361).

THE NEW EDITION of the German Pharmacopœia was published this week. We commence a comparative review of its conteuts (p. 354), and note the principal changes on p. 351.

IS HYDROGEN OR OXYGEN to be taken as the unit for atomic weights? The International Commission favour oxygen, but there are reasons for retaining hydrogen (p. 353).

THE PHYSICAL CHARACTERISTICS of eleven organic silver compounds recently introduced into medicine are given on p. 358, with notes which make the compilation useful for dispeusers.

THE question as to what is included in the expression "liquid preparations of carbolic and its homologues" is discussed on p. 348. We show that it is possible it was not intended to include as much as it does.

A COMMITTEE has been appointed in the United States to confer with the manufacturers, bacteriologists, and therapeutists to ascertain if it is feasible to introduce antitoxin sernms into the United States Pharmacopœia (p. 352).

THE GROCERS' FEDERATION are reminding grocers' associations that carbolic acid has been scheduled as a poison, and urges them to get guarantees from the manufacturers that their liquid-disiufectants do not come within the meaning of the Order (p. 334).

THE LIST OF AWARDS at the Paris Exhibition was made known on Saturday last. We publish the names of those successful exhibitors in the classes and groups identified with pharmacy, and give an illustration of the diploma which is presented to each (p. 340).

CHEMISTS take a good deal of interest in company matters, and many chemists' businesses are carried on under limited-liability lines. On this account we review the alterations in company law which come into operation with the passing of the Company's Act, 1900 (p. 349).

SIX HUNDRED pharmaceutical chemists, chemists and druggists, and persons connected with pharmacy want to know the reason why the Pharmaceutical Society are abolishing the shilling fee payable by candidates unable to attend an examination through illness. A petition is being sent to the Privy Council (p. 344.)

C

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Brevities.

The chemists of Newport-on-Usk have agreed to close on four days of the week at 9 P.M., commencing September 2.

Mr. L. T. Goucher, chemist, Howard Street, Sheffield, was thrown out of a trap on August 20, and sustained cuts about the legs and arms.

Mr. Geo. Leghorn, described as a chemist and druggist, of Castle Hedingham, has been fined 1*s.* and 7*s.* costs for riding a bicycle at night without a light.

At the weekly meeting of the Exeter Corporation of the Poor on Tuesday afternoon, the dispenser (Mr. E. Lemmon) was granted a holiday, and a lady nominated by him was approved as his deputy.

Neil Housen, a seaman, was cautioned at Grimsby Police Court on August 14, for attempting to commit suicide by drinking laudanum, which he had obtained from Mr. Hawdon, chemist, Cleethorpes Road.

At the Guildhall on August 18, Frederick C. Macdonald pleaded guilty to embezzling various sums of money from his employers, Messrs. Armour & Co., of Chicago and Snow Hill, E.C. The prosecutors intimated that they did not wish to press the charge and prisoner was bound over under the First Offenders Act.

Two labourers, who had been discharged from the employment of Messrs. Manger & Sons (Limited), chemical-manufacturers, Bow, were committed for trial at Worship Street Police Court on August 20 for causing wilful damage by smashing two boilers and two weighing-machines at their late employers' works.

Penny Postage.

On January 1, 1901, penny postage will be established within and without the colony of New Zealand, which is the first of the Australasian colonies to adopt the universal penny-postage system. The change is announced in the Budget statement delivered at Wellington, N.Z., on August 17, by Mr. Seddon, the Premier and Colonial Treasurer, who stated that the concession would probably result in a loss of 80,000*l.* per annum to the Colony.

The Metric System.

In the annual report of the chief officer of the Public Control Department of the London County Council, it is stated that "there is as yet little indication of the adoption of the metric system in general trade. By chemists and in export trades metric weights and measures have been in use for some years, but the Board of Trade do not consider that at present it is necessary to frame model regulations for the guidance of inspectors."

Carbolic Cases.

At Flint on August 11, a young married woman named Martin committed suicide by drinking carbolic acid.

James Leggett, a dairy-farmer, who lived in Camden Square, N.W., drank carbolic acid on August 16, and death speedily ensued.

On August 16 a young girl named Harriet Early was admitted to the Southampton hospital suffering from carbolic poisoning. She is expected to recover.

A young married woman named Sarah Baker, of Lincoln, who had been "rather fond of drink," drank some carbolic acid on Friday, August 17, and died shortly afterwards.

At an inquest held at Eastbourne on the body of a man named Dicker, who died from carbolic-acid poisoning, Dr. Matthews Browne said he understood that owing to the frequency of deaths from carbolic-acid poisoning, the Pharmaceutical Society had decided to place the acid in the list of poisons.

Carbolic Acid Unlabelled.

At the close of an inquest held at Maidstone on August 14, Dr. Richard Thompson Cæsar complained to the Coroner that whilst he was making a *post-mortem* examination of the body he asked to be supplied with some carbolic acid, and it was handed to him in an ordinary pint wine-bottle which was unlabelled. This, he pointed out, was a most dangerous thing to do and was the way fatalities with carbolic acid occurred. He added that the bottle in question was handed from neighbour to neighbour. The Deputy-Coroner (Mr. Robert Hoar) stated that he did not think that any Maidstone chemist would sell carbolic acid without labelling the bottle in which it was supplied. Such a practice was very dangerous, and he hoped that Dr. Cæsar's complaint would be noted.

Grocers and Carbolic Acid.

The Executive of the Grocer's Federation, in a circular sent to all grocers' associations, urges that the matter of the scheduling of carbolic acid be brought before all members of the Grocers' Association immediately, in order to remind them of the risk of prosecution they incur by selling restricted goods. The Executive recommend that in all cases the retailer should at once arrange for the disposal of any stock he may have of goods containing preparations of liquid carbolic acid, and refuse to sell any similar goods in future without a written guarantee from the manufacturer that such goods contain less than 3 per cent. of liquid carbolic acids or its homologues, and an indemnity against the costs or damages arising from any prosecution. The circular goes on to say that the question of unfairness of traders being permitted by Act of Parliament to set up monopolies will be fully dealt with by the Executive of the Federation at an early date.

Various Poisonings.

A child named Middlebrook, aged 4½, died at Bradford on August 16 from drinking ammonia from a ginger-beer bottle.

At Southport on August 17, a photographer's tout named McVeigh committed suicide by drinking a solution of cyanide of potassium.

Isaac Palfrey, who was recently charged at Derby with attempting to commit suicide with prussic acid, died in the Derby Royal Infirmary on August 19.

A negro on August 11 visited a chemist's shop at Penrith, and purchased threepennyworth of washing ammonia, which he drank. He is now in a critical condition.

Mary Yates (48) died on August 20 from oxalic-acid poisoning. She had obtained the acid from Mr. Stephen W. Evans, chemist, Middleton, and stated that it was for bleaching-purposes.

A Dudley bricklayer named John Shakespeare, who had been "queer" for some time, bought threepennyworth of rat-poison (phosphorus-paste) from a local chemist, swallowed it, and died. The coroner's jury found that he was of unsound mind.

Over 100 persons have been poisoned by eating ice-cream at Rochdale, and two deaths have occurred. The ice-cream poisoning at Salford has been equally disastrous. The result of the analysis has disclosed the existence of bacteria in the cream calculated to produce toxic effects.

At an inquiry held at Church on August 22, touching the death of James Cornwell, a labourer at Messrs. Blythe & Co.'s chemical-works, Church, the evidence showed that deceased was engaged putting zinc into a cistern containing hydrochloric acid. He was taken ill, and died on August 17. The evidence of the medical man was that the internal organs were very much decomposed. Holmes Greenwood, manager for Messrs. Blythe, admitted that nine other men were absent from work suffering from similar symptoms to those found in deceased, and a verdict of death from arseniated-hydrogen poisoning was returned.

An inquest was opened at Ipswich on August 20, into the death of Alice Fanny Goffin, who was found dead with an empty bottle by her side. Mr. W. J. Staddon, surgeon, said when called on Sunday morning he found the woman dead, and by her side a bottle which contained a small quantity of

solution of oxalic acid. The inquest was adjourned for a *post-mortem* examination to be made, and at the adjourned inquest Mr. F. H. Palmer, chemist and druggist, St. Nicholas Street, said he had known deceased, through her going to the shop, for some time, but had not seen her lately. He had often sold her oxalic acid, and on Friday the eldest daughter went for some. Oxalic acid was in crystals, and he gave her half-an-ounce in a packet, labelled according to the Pharmacy Act. Oxalic acid was a daily sale, as it was used for cleaning straw hats. A needle was discovered in the woman's heart, which the surgeon said accelerated death. A verdict of suicide whilst insane was given.

Manx News.

Our Isle of Man correspondent informs us that opinion is considerably divided amongst the pharmacists there as to the prospective value and operation of the new Pharmacy Act. Several members of the craft are of opinion that it has come too late to be of any practical use ; others consider that it will not benefit the present generation of chemists, but will do good in time ; whilst some are of opinion that it will make no difference whatever.

As regards the sale of poisons it is well known that proprietary articles containing poisons are still openly sold by grocers, &c., and will no doubt continue to be until there has been a prosecution to remind them of the existence of the new Act.

The approximate number of chemists in business in the Isle of Man is twenty-eight (a large proportion of whom, by the by, possess the qualification of the Pharmaceutical Society of Great Britain), with a resident population of some 55,000. Quite a number of these have branches, so that there is little room for unqualified men setting up in business. Assuming, however, that this were to happen, as one member of the craft facetiously remarked, it would be necessary to "move heaven and earth before you could move anything," so far as instituting proceedings were concerned, there being no properly constituted body for setting the Act in motion. Its power for good in this direction, therefore, seems to be a very doubtful quantity, and the only effect it seems likely to have is that it may prevent unqualified men acquiring any existing businesses. In the event of proceedings being necessary under the Act the initiative would appear to be vested in the Lieutenant-Governor.

It seems a pity that a system of registration for those who are and have been in business in the island was not provided.

The season is now in full swing in the island, and although the number of visitors is below last year at the corresponding period, the chemists are obtaining their share of what prosperity is forthcoming.

Several chemists are catering for amateur photographers. Dark-rooms are provided for their use by A. W. Brearey, Prospect Hill, and G. J. Maley, 15 Strand Street, Douglas ; and by J. Pallister, Parliament Street and Promenade, and J. Arkle, Parliament Street, in Ramsey.

The Sale of Poisons.

A long discussion took place at a meeting of the Bedford Board of Guardians, on August 11, respecting the sale of a packet of vermin-powder to a young woman with suicidal tendencies who had just come out of a lunatic asylum. The poison was found upon the woman by the relieving-officer, and the Chairman of the Board (Mr. Isaac Harding) said it was a very serious thing that this woman should be able to obtain poison from a chemist. He proposed :—

That in the opinion of the Guardians it is highly desirable that further restriction should be placed on the sale of deadly poisons, which are now obtainable by irresponsible persons often with disastrous results, and that a copy of this resolution be forwarded to the members of Parliament for the borough and county.

The packet of poison was produced, and the Chairman declared that it was rat-poison containing strychnine ; and Mr. Hepwell, one of the Guardians, said the question was whether the chemist who sold it [whose name was not divulged] exercised proper care, and he thought it advisable to instruct the Clerk to ascertain from the chemist whether proper precautions had been taken. Mr. Moyes, another member, said it was only fair to the chemist to say that he would have had great difficult in finding anything wrong with the woman. The Rev. G. Penman thought the chemist had probably conformed to the requirements of the law, and the Chairman thereupon explained that there was no reflection on the seller of the poison in his resolution. Mr. Ransom said laudanum was sold with great facility, stating that whilst in a shop he saw three customers served with the drug without any trouble. The resolution was carried.

Would it Save Trouble ?

At an inquest held on a Jewish child at Mile End, on August 17, the mother, who had just come from Russia, produced a medicine-bottle obtained from a Russian chemist, which bore a label with the prescription written upon it. The Coroner was of opinion that if English chemists and doctors would only write the prescription on the label in the same way it would save a lot of trouble.

Birmingham Notes.

Looking through past pages of pharmaceutical history as portrayed by its advertisements, the times have indeed changed. Then the phrase was, "Applications not answered in three days declined," another took four days to decide, and another a week. Last week an employer advertised for an assistant, and the applicants were so few that the first who called was engaged on the spot and at his own price. No question arose as to legal qualification, nor if he was married, and it was an indoor berth at eighty guineas, if you please !

The local press have a queer conception of what a chemist is when they report, as they did recently, a "Birmingham chemist heavily fined" for doing what it is quite certain a genuine pharmacist would not be capable of doing if he were an honest man ; and it is gratifying to find that the Local Secretary of the Society wrote to the papers to remind them that no such name appeared upon the register of the present year. It is a pity he did not also press home a far more important matter—that a pharmacist, although not necessarily a chemist, is in such matters bound to supply medicines of official purity and standard for conscience sake.

Another question arises here. A reporter hears such a case, and naturally desires to know whether the defendant is really a legally qualified man. Where can he see the register ? There is one at the County Court—must he apply there ? Why is there not one, say, in the public reference library, to which inquirers could be directed in such cases ? A place could also be found for one in the local Society's bookcase in the dark corridors of the Mason College buildings.

It is a matter of regret, mingled with a little satisfaction, that the local brotherhood learn that the authorities of the University have warned the Association that they will not for much longer be able to asylum them and theirs. That the University has never been the Association's real home goes without saying, for to sit upon hard benches in lecture-theatres and looking upon uninviting walls and blackboards smeared with chalk-marks, reminded one too much of days of yore. Why cannot the local pharmacists approach the Medical Institute authorities, where there is a library and cosy, carpeted, and well-upholstered rooms, a genial librarian, a kindly janitor, and all the necessaries (except the whisky and cigars) so dearly beloved of the easy-going, average pill-vendor, and professional mixer ? The local Association has had many homes. A member and office-bearer has enumerated some—they are the Quadrant Rooms (a disastrous undertaking), Burlington Chambers, private rooms at the various hotels (Grand, Midland, Colonnade, Wyckhams, Acorn, and Central). Would it not be better to establish a club, as pressmen and others do, and do the thing in style in keeping with the high position, as some think, of pharmacy and pharmaceutics ?

A party of pharmaceutical students, including two ladies, on August 20, under the guidance of Mr. F. H. Alcock, paid a visit to Chelmsley Woods and district on a botanical excursion, leaving New Street at 10.30. The weather was delightful, and the abundance of specimens found, both rare and otherwise (filling six good-sized vascula), made the outing profitable and enjoyable. Proceeding afterwards to Coleshill on the recommendation of the local pharmacist—Mr. Spencer—the botanists put up at the well-known "Ye

Olde Stockes," formed an impromptu concert, climbed the stocks and pillory, and visited the church (of the Digby family), afterwards walking to Water Orton Station, and returning to Birmingham at 7.30. The specimens collected numbered over 100.

Sutton Park and its attractions are being boomed just now in the local press, and there is no doubt that a student of botany cannot do better than visit it frequently. The bogbean grows there luxuriantly; so does the drosera. But the latter is becoming so rare that it is difficult to persuade the enthusiast to tell you the right "spot," and hence a "find" is a real compensation for all trouble.

The burglar has been engaged in Broad Street at the shop of F. Williams & Co, drysalters. Entrance was effected through the panel of the outer door. The day's takings were not disturbed, and very few things were missing. This is the third time that the place has been visited, and the police have the matter in hand. This firm has opened extensive premises in Bristol Street, and has a long frontage to Wrentham Street also.

The local craft have much difficulty nowadays in getting errand-boys, and advertisements pretty constantly inserted do not have the desired effect. Formerly the wage was 4*s.* weekly, with tea, but now all that is changed, and 7*s.* to 10*s.* is the figure, and the age 13 to 15. At this rate what would be the salary of the assistant, assuming that the usual progression was the basis? The reason is not far to seek: at this age they are as useful in cycle-factories as a man, and hence command good wages, which, however, do not go beyond 25*s.* to 40*s.*, whatever the age or ability.

Cricket Reports.

Burroughs, Wellcome & Co. *v.* Burgoyne, Burbidges & Co. —A Drug-League match between teams from these well-known houses was played at Wadham Lodge on August 18, resulting in a win for B., W. & Co.'s team. Scores: Burroughs, Wellcome & Co., 101; Burgoyne, Burbidges & Co., 51. For the winners Parton took five wickets for 21 runs, and scored 22; Mace also scored 34. For B., B. & Co. Selwood scored 20 runs.

Davy Hill's C.C. *v.* Allen C.C., at the Elms, Walthamstow, on August 18. Scores:—D.H.C.C., 96; Allen C.C, 76. For winners Dellar scored 26; Dean, 21; and T. Sibley captured seven wickets for 20 runs, taking four wickets with successive balls, whilst for losers M. W. Allen scored 29 and Argent 22.

Chemists' Arrowroot.

At a meeting of the Guardians of the Holborn Union on Wednesday, it was decided that the contract for arrowroot be taken out of the grocery-list and added to the drug-list. Mr. Eade, who moved this, said this was the ninth year in succession that he had brought this forward, but he considered it so important that he could not give it up. Arrowroot was a very important element in the food of some sick persons—in fact, more important than drugs; and as he knew the chemists and druggists had facilities for getting better arrowroot than the ordinary grocery contractor, he again moved in the matter The ordinary arrowroot of commerce might be good, but that which the drug-merchant could command was infinitely better. The Guardians ought not, in the interests of the suffering poor, to deny them the best nutriment possible.

Doctor Poisons Himself.

An inquest was held at Brierly Hill on August 22, on the body of Dr. George Gibson, *locum tenens* to Dr. L. A. Taylor, Brierly Hill, The evidence of Miss Beatrice Robinson, Dr. Taylor's dispenser, was to the effect that deceased disputed with her that two solutions of chloral hydrate in a couple of bottles were of equal strength. He said he would taste them, and took a measure and reached for the bottle. She did not notice what he did, but directly after he informed her that he had swallowed some chloral hydrate, but refused to let her fetch a doctor. She broke a capsule of amyl-nitrite and sprinkled it on a handkerchief to inhale as an antidote, while she left him for a doctor. She failed to get one, and upon returning to the surgery found Dr. Gibson on the floor, black in the face, and dead. Death by misadventure was the verdict of the jury.

A Chemist's Assistant's Death.

At the Newington Coroner's Court on August 20, an inquest was held touching the death of Percy Waldron, a chemist's assistant, living at Great Dover Street, Borough. The medical evidence went to show that death was due to the breaking of a bloodvessel on the brain, and the jury found a verdict accordingly.

Charges of Stealing.

At the Southwark Police Court on August 21, a man named Frazer was sentenced to one month's imprisonment with hard labour for stealing a bicycle, the property of Mr. Robert Appleby, a chemist's assistant residing in Battersea.

At the Lambeth Police Court on August 21, a carman named George Edwards was charged with being in the unlawful possession of twelve syphons supposed to have been stolen. The prisoner was seen carrying a sack along Brixton Road, which was found to contain syphons bearing the name of a local chemist. He was remanded.

Confession of an Opium-eater.

At an inquest held at Liverpool on August 21, on the body of a shipping clerk named Terence Kelly, it was stated in evidence that deceased was a confirmed opium-eater. The Coroner read a long letter, written by Kelly, which threw light on the subject. In the course of it Kelly said:—"I have no doubt that the taking of 50 to 60 gr. of opium daily for fifteen years has had everything to do with my present state. To save trouble at the inquiry I may say that I have got so low at last that I have to commit suicide. . . . Some time since I tried ½ oz. of laudanum, then 1 oz., then ½ oz. of opium itself, then ¼ oz., and at last ⅜ oz. of opium, but all without effect; and this time I intend to take ½ oz., or, say, 220 gr., and that ought to finish me, when 6 or 8 gr. are considered enough to kill any ordinary Christian. . . . I can understand why Lord Clive, with all his advantages of wealth and station, committed suicide after using the drug for years." After describing the effect of opium on the system, the sensation of which Kelly says "is glorious," the letter states that "During the fifteen years I took it, or say from 30 to 40 years of age, I found the brain, as well as the heart, quickened in action. Now, my brain will not receive any impression and is quite soft, and I have no more thinking faculty that a boy of 10 years, and have forgotten almost all I ever knew. For seven years my heart burned like a coal of fire, while at other times it seemed as though it would beat no more." The jury returned a verdict of suicide by poison whilst of unsound mind.

Analysts' Affairs.

It has been decided by the Morecambe Urban Council to appoint a public analyst under the Sale of Food and Drugs Act.

The public analyst to the Wiltshire County Council, in his quarterly report, states that all the samples of camphorated oil, Epsom salts, lime-water, quinine-wine, and seidlitz-powders analysed proved to be genuine. Of ten samples of baking-powder, seven contained alum in place of tartaric acid.

The Leicestershire County Analyst in his quarterly report has the following interesting observations on baking-powder adulteration:—

The three samples of baking-powder belonged to the very objectionable class of alum baking-powders, containing in round numbers one third of their weight of alum. Baking-powder, properly made, consists of a mixture of starch (such as ground rice or corn-flour), with bicarbonate of sodium and tartaric acid, the object of the tartaric acid being to liberate the carbonic acid of the bicarbonate of sodium, and produce effervescence when the powder is moistened. For a number of years (the report goes on to say) a nefarious trade has been carried on by the sale of cheap baking-powders in which the tartaric acid has been replaced by a much cheaper substance—alum. Alum is a substance the constant use of which in food must be regarded as exceedingly deleterious to health, as it has a specific effect on the digestive organs. Under the Sale of Food and Drugs Act of 1875, it was held, on appeal to the High Court, that baking-powder was not in itself an article of food, but only an ingredient sold for mixing with food, and that it, therefore, did not fall within the scope of the Act. In the amending Act of Parliament, passed last year, a special clause was introduced to deal with cases of this kind, and as a conse-

quence it is now possible to stop the sale of this objectionable kind of baking-powder. It is satisfactory to find that out of twenty-eight samples taken in the various divisions of the county no fewer than twenty-five were free from alum; and having regard to the very wide-spread trade in alum baking-powder which prevailed all over the country until the passing of the present Act, there can be little doubt that the wholesale houses, in anticipation of the well-known vigilance of the inspectors, promptly "called in," from the retail dealers in most cases, any unsold stocks that might be in hand of such powder.

Fire.

Fire broke out on August 14 at the premises of Mr. C. E. Palmer, pharmaceutical chemist, 68 Kensington High Street, and a large quantity of stock in the front shop was destroyed. The premises generally were considerably damaged by fire, smoke, and water.

Drank the Fomentation.

Mrs. French, the wife of a painter living in Newport-on-Usk, had been suffering from an abscess, and had resorted to fomentations of poppy-heads and chamomile-flowers. She, however, not only bathed her face, but drank about half-a-teacupful of the mixture, with the result that she became very ill. A salt-and-water emetic was administered, and Mrs. French was medically attended. She is still suffering from the effects of the draught.

Wholesale Pill-stealing.

At Leeds on August 22, William Spencer Lewis, Canonbury, and Jack Lewis, Wakefield, described as medical students, were charged with receiving a large number of pills, the property of Taylor's Drug-stores (Limited), knowing them to have been stolen. According to the evidence of the prosecutors, a man named Holden, now undergoing imprisonment, arranged to purloin goods wherever he was employed, and send them on to the Lewises. Holden was first in a situation in Oldham, but afterwards went to the Boar Lane establishment of Messrs. Taylor in Leeds, where he persistently stole boxes of pills, took or sent them to Manchester, where the prisoners then were, and delivered them to prisoners. About the end of June William Lewis went to London, where the system was continued. Prisoner took a letter-box in the name of E. Ross & Co., and the goods were sent by Holden to St. Pancras to be called for. Holden gave evidence against the prisoners, in the course of which he stated that he had had about 15*l.* out of the transactions, but there was 10*l.* still owing to him for his share. The arrangement was that he should receive half the cost-price, which represented that he had stolen about 50*l.* worth of pills. Both prisoners pleaded guilty, and were sentenced to six months' imprisonment each, the Stipendiary describing the system it as a far-reaching and abominable conspiracy.

Irish News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Analyst Appointment.

At the last meeting of the Youghal Board of Guardians a letter was read from the Local Government Board stating that they would raise no further objection to the appointment of Sir Charles Cameron, Dublin, as analyst for the Union. The Local Government Board objected to the appointment at first, but the Guardians tackled them, and the L.G.B. gave way.

Cork Chemical Laboratory.

In his annual report Sir Rowland Blennerhassett, President of the Queen's College, Cork, urges the desirability of improving Queen's College. "A completely new chemical laboratory," he says, "amply provided with what French scientists call the 'outillage' of high instruction, under the direction of a man like the present professor of chemistry, Dr. Dixon, would, by its subtle influence in Cork, gradually but surely force the application of well-established principles of science to the conduct and development of business, and this in the modern world is becoming daily more and more an essential condition for the solid success of industrial undertakings."

Not Responsible.

At the meeting of the Stokestown Union (co. Roscommon) on August 17 a letter was read from Mr. P. N. White, chemist, Sligo, stating that as the drugs supplied by him had been found fault with by the analyst, he wished to bring under the notice of the Board the fact that the drugs in question were supplied by him four months ago, and therefore he could not be held responsible. The letter was marked "Read."

National Veterinary Association.

Dublin was the place selected this year for the annual conference of the National Veterinary Association. It was opened on August 21 in the lecture theatre of the Royal Dublin Society, under the presidency of Mr. M. Hedley, F.R.C.V.S. Lord Ardilaun, President of the Royal Dublin Society, welcomed the Association. The President's address traced the rise of veterinary science from 1791, when the first veterinary college was established in London. We gather from the number of wants still unsatisfied that veterinary medicine is not so fully recognised as its leaders would like.

The newly constituted Veterinary College for Ireland was opened last week, and Sir C. Nixon, the President, read a paper before the Association, in which he said he had an idea of establishing a pathological institute in connection with the college.

The Conference meets at Edinburgh next year.

Scotch News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Property Purchase.

Mr. George L. Bruce, chemist, Cupar Fife, has purchased the property in Crossgate consisting of shop, occupied by Mr. A. Forrester, chemist, and flats above from Mrs. J. R. Mackie, London.

A Medical Man's Legacies.

By the will of the late Dr. P. A. Simpson, Emeritus professor of forensic medicine in the Glasgow University, public institutions in Glasgow and the West of Scotland have benefited to the extent of 12,000*l.*

Petition for Cessio.

The examination of William Finlayson, jun., 347 Great Eastern Road, Glasgow, sole partner of the Glasgow Chemical Compounds Company, will be held in the Chambers of the Sheriff-Substitute, County Buildings, Glasgow, on August 30.

A Cocaine Victim.

A lorryman named Leith was sent to gaol for fourteen days at Falkirk on August 16 for embezzling 2*l.* 10*s.* belonging to his employers. He excused himself by saying he was a victim to the cocaine habit, and was under the influence of that drug when he committed the offence. He had obtained, he said, 9 gr. from a local chemist.

THE Great Eastern Railway Company have issued a very useful "Tourist Guide to the Continent," which covers trips to Holland, Germany, Austria, Norway, Denmark, and Sweden. It is well worth the 6*d.* at which it is priced.

THE quantity of saltpetre removed from the refineries in Bengal during the quarter ending March last on payment of duty amounted to 7,161 British maunds (1 B. maund = 82 lbs.), as compared with 1,587 maunds in the previous quarter, and 6,850 maunds in the corresponding quarter of the previous year.

Colonial and Foreign News.

Carbolic-poisonings.—Carbolic acid appears to be becoming as fashionable a suicidal vehicle in the United States as it has hitherto been in this country. Half-a-dozen carbolic-suicides in one week are reported from Boston.

The Santiago Exhibition.—Articles destined for the Santiago Exhibition to be opened on December 25 will be admitted duty free provided they are not sold there, and the Kosmos and Pacific Steam Navigation Companies have arranged reduced freights for such goods.

Drank Real Poison.—It is stated that a well-known Austrian opera-singer, Mme. Nemethy, was poisoned on the stage of the Royal Opera-house at Buda-Pesth on August 14 by drinking a virulent poison which had been substituted for the coloured water used in the performance.

Women Chemists in Holland.—It appears from inquiries made by Dr. Contzen, of Cologne, that twice as many women as men are employed in pharmacy in Holland. The reason is that a woman's yearly salary, with board and lodging, is 425f., without board and lodging, 850f. to 1,275f.; whilst that of a man is, in the first case, 635f., and in the latter 1,000f. to 1,700f.

P., D. & Co.'s Library.—The employés of Messrs. Parke, Davis & Co., of Detroit, have a Laboratory Reading Association which elects its own board of directors and manages its own affairs. The firm has reserved a commodious compartment for the exclusive use of the Association, and 1,440 of the best popular books of the day have been collected, besides thirty-three current periodicals, of which 160 copies are purchased monthly.

Patent Medicines in Porto Rico.—The new law adopted in Porto Rico regarding proprietary medicines, which makes it mandatory that the formulas of all medicines sold on the island of a proprietary nature shall have been filed with the Government before such sales can be made, is already having a telling effect on medicines sent from the United States. Letters have been received by members of the trade to the effect that druggists in Porto Rico dare not deal in proprietary medicines of American manufacture because of the law. It is possible that some steps will be taken by manufacturers in New York and elsewhere to relieve the situation.

A Haul of Opium.—Clever thieves broke into a New York bonded warehouse on the morning of August 10, stole 1,100 lbs. of high-grade opium, valued at about $4,000, and so completely covered their work as to baffle a score of policemen and detectives who were set upon their trail immediately the robbery was discovered. The warehouse was considered impregnable, and for this reason was made the storing-place for opium. The stolen goods belonged to Dodge & Olcott, and the duty, which is about $1 per lb., had not yet been paid. It is believed by some who are acquainted with the facts that it may have been the work of Chinamen, headed by some American.

Opium-smuggling in India.—The opium smuggler in India is a plentiful brood, as the *Madras Times* states that scarcely a vessel comes to Rangoon from Calcutta without smuggled balls of opium on board. The opium is landed in all kinds of ways; often it is sunk in the Rangoon river, before the vessel arrives at the wharf, and is afterwards fished up. One recent seizure was made owing to a fireman on a steamer having his opium rejected by his employer because it had been apparently concealed too close to the boiler and had been spoilt. The importer, annoyed at what he called "a breach of faith," promptly gave information. Recently 370 tolas of opium were found concealed in cigars; these came from Madras.

Foreign Trade-marks in Brazil.—The U.S. Consul at Petropolis reports that he has protested against the Brazilian law enacted last November, forbidding the importation of manufactures that carry labels, prescriptions, or trade-marks in Portuguese or partly in that language, which law causes serious loss to importers of proprietary medicines. The Consul has obtained a postponement until October 1, and hopes that Congress will repeal the law. He argues that labels are a part of trade-marks, and that consequently the law is in violation of the convention of 1878 between the United States and Brazil. He advises all American importers to conform to the requirements of that agreement by registering their marks in Brazil.

Morphine in China.—The imports of morphine into Amoy during 1899 were 16,629 oz. (4,350*l.*), or about 5,000 oz. more than the import of 1898. These figures have attracted the attention of the provincial authorities, who addressed a despatch to the foreign Consuls in Amoy asking them to instruct their nations that the import of morphine is forbidden. It was pointed out, however, that the prohibition must come from the Central Government, with the approval of the Foreign Minister, so that the importation is likely to go on without interference.

Counterfeit Trade-mark Case.—At the Bengal Court on August 1, the Badische Anilin und Soda Fabrik, of Ludwigshafen, charged two Marwari dealers with being in possession of the counterfeit trade-mark of their firm, in respect of aniline dyes, and with selling packets of dyes with counterfeit labels on them. After a protracted hearing, the defendants were found guilty and fined 500r. each, with the alternative of six months' rigorous imprisonment. Half of the fines, if recovered, was ordered to be paid to prosecutors as compensation. The counterfeit labels seized were ordered to be destroyed.

Sale of Spirit in Johannesburg.—It is notified that it shall not be lawful for any chemist, druggist, storekeeper, or other person to sell or dispose of any spirit of wine, methylated spirit, or burning-fluid to any native or coloured person whatever. Sales of such burning-fluid to white persons are permitted subject only to the following terms and conditions:—(1) That the quantity sold at any time to any one person does not exceed a reputed quart; (2) that the bottle shall be labelled with the name and address of the seller and the words "Poison—Burning-fluid," and that the seller shall keep a book showing the date of sale, quantity sold, name and address of purchaser, and the purpose for which it was required.

Export of Drugs from Peru.—The exportation of cinchona from Peru during 1898 amounted to 48,099 kilos., against 62,261 kilos. in 1897. France, which was formerly one of the best markets for cinchona from Peru, imported nothing in 1898. Germany and Great Britain divided the exports between them. Rhatany to the extent of 60,000 kilos. was exported to Great Britain, France, and Germany, the last named country receiving the bulk. Gum arabic figured at 42,393 kilos., of which 16,747 went to Germany, 2,879 kilos., to France and 22,767 kilos. to Great Britain. The exportation of coca-leaves during 1898 amounted to 406,718 kilos., against 493,677 kilos. in 1897, of which 292,904 kilos. went to Germany and 14,215 to Great Britain. Of crude cocaine 4,346 kilos. was exported, of which 4,024 kilos. was shipped to Germany, 175 kilos. to Great Britain, and 30 kilos. to the United States.

What is Ganja?—A shopkeeper in Ceylon was recently fined 30r. for possessing "lagium" (a medical preparation in pill-form) containing ganja. He appealed against the decision, as there appeared to be some doubt as to what ganja really was. It was therefore left to the Chief Justice to construe the definition of the drug, and in allowing the appeal he gave the following interesting judgment:—

It is alleged that this "lagium" contains ganja; now, ganja is defined in the Ordinance most elaborately as meaning the "dried flowering tops of cultivated female hemp-plant which have become coated with resin in consequence of having been unable to set seeds freely," so that it appears ganja is not a plant, or a seed, or a leaf, but is a diseased portion of a peculiar species of hemp. Now, I cannot find on these proceedings any evidence that the "laginm" found in the appellant's shop contained the "dry flowering tops of cultivated female hemp." The case was supported by the evidence of a judicial medical officer, who states that *Cannabis indica* was a common name for Indian hemp, and Indian hemp was commonly called ganja. Then a public analyst was called, and he stated he had examined the contents of a tin said to contain "lagium," and he described the contents as being a black paste, smelling of various aromatics. Under the microscope, grannles of starch, globules of oil, and saccharine matter, as well as portions of leaves, stems, and seeds of *Cannabis indica*, were detected. Chemically resin of *Cannabis indica* was extracted, and opium found in small quantities. There is no statement that he discovered there "the dried flowering tops of enltivated female hemp-plants," and, in my opinion, the appeal must be allowed.

French News.

(From our Paris Correspondent.)

Congress of Hypnotism.—The second International Congress of Experimental and Therapeutical Hypnotism has just terminated its meetings in Paris. The President was Professor F. Raymond. The honours of hypnotism in France are divided between the Salpetrière School, of Paris, which came into prominence under the late Professor Charcot, and the Nancy School.

Tariff-decisions.—The Board of Trade have issued copies of certain circulars issued by the French Customs Department containing, *inter alia*, the following decision affecting the application of the tariff:—Diastase (maltine) and glycerophosphates: The proportion of alcohol for the assessment of duties has been determined as follows:—

Diastase (maltine), 14 litres per kilo.
Glycerophosphates, 3 litres per kilo.

Renewing Air.—At the meeting of the Paris Academy of Sciences this week, a letter was received in which the writer claimed to some extent the priority of the discovery referred to at the previous meeting by MM. Desgrez and Balthazard for renewing air by means of binoxide of sodium in confined atmosphere (*C. & D.*, August 18, page 332). The writer says he has been in the habit of using binoxide of sodium for clearing carbonic acid from the atmosphere of wells.

Pharmaceutical Armorials.—M. Henri de Mazières is preparing a book giving the "Armorials of Apothecaries and Pharmacists," and would be glad to hear from anyone interested in the subject of pharmaceutical heraldry. Sketches or photographs of arms on old pharmaceutical pots would also be of great assistance to him. Pharmacy has always been a liberal profession in France, and many families of apothecaries and pharmacists, as well as all the corporations connected with pharmacy, have possessed arms, so that M. de Mazières's idea is an excellent one. His address is 20 rue Alphonse de Neuville, Paris.

Anti-expectoration.—The following notice may now be read in most of the railway-carriages, tramways, and omnibuses of Paris and suburbs:—"Recommendation of the Committee of Hygiene. Passengers are asked not to spit on the floors or carpets of the carriages." This suggestion is, of course, not merely meant as a hint to a certain class of Parisians to expectorate with some show of decorum; but the great object the Committee of Hygiene has in view is to endeavour to lessen the spread of tuberculosis, especially in the large cities, where expectorations are more likely to turn into dust, and thus spread the microbes. Steps are also being taken to endeavour to encourage people to mind their habits a little in the same respect in the streets.

The Legion of Honour.—Amongst the numerous nominations made in the Order of the Legion of Honour (popularly known as Exhibition decorations) the following names are mostly known to pharmacists:—*Commanders*—Professor Moissan and Professor Troost. *Officers*—MM. Asselin, chemical-manufacturer; Chamberlain, of the Pasteur Institute; Haller, Professor at the Paris Faculty of Sciences; Hatton, chemical-manufacturer. *Knights*—MM. Debuchy, manufaeturer of pharmaceutical products; Dupont, Seeretary of the Congress of Applied Chemistry; Fumouze, Vice-President of the Syndicate of Manufacturers of Pharmaeeutical Products; De Laire, manufacturer of artificial perfumes; Le Gloahec, chemical-manufacturer; Lequeux, manufacturer of apparatus applied to chemistry; Ogier, chief of the Toxicological Laboratory at the Prefecture of Police; Petit, President of the Congress of Pharmacy; Piver, perfumer; Prot (of the firm of Lubin), perfumer; Maurice Prudhomme, chemist; and Vibert, perfumer.

Poisoning by One's Feet is the latest danger to which the attention of the Paris Academy of Medicine has been cal'ed. At a recent meeting of that body Professor Landouzy and Dr. Georges Brouardel gave the result of chemical observations made by them. They attribute the poisoning to a dye or varnish used for blacking shoes. Analysis showed that this varnish contains colours, of which 92 per cent. is aniline dye, and 8 per cent. other colours derived from coal-tar; there was no trace of arsenic. Experiments on young rabbits and snakes showed that the aniline dye was the cause of the trouble. MM. Landouzy and Brouardel's observations were confined to children—seventeen in all. The symptoms of poisoning were prevalent only in hot weather, but in some cases they were of a very serious nature. In this connection Dr. Blache mentioned that ladies have suffered from poisoning through wearing coloured stockings dyed with fuehsin. His obser7ations cover a period of twenty years, and he is inclined to attribute the poisoning to the considerable proportion of arsenic in the dye. It is understood that the Academy will shortly go into the question of poisoning produced on persons wearing cheap hats by the dye used for the inside lining.

The Charmed Idol.—People who believe in amulets, charms, and magical cures will be interested in the following anecdote, which has appeared in a Paris newspaper. The story runs that the late President of the French Republic, M. Sardi Carnot, at the time Minister of Finances and not dreaming of becoming President, was met one day by his friend Gustave le Bon, the explorer, just returned from India, who offered him a little stone idol of curious workmanship. There was a tradition attached to this idol. It had belonged to the reigning house of Khadjuras, and the Rajah wished to get rid of it because, although it was supposed to seeure power to a member of the family in whose possession it happened to be, it also ensured a violent death. The Hindoo prince who presented the idol to M. le Bon, while anxious to reign, objected to the other condition. Once on the throne he thought to attenuate the chance of a violent death by getting rid of the idol. The explorer warned M. Carnot of the legendary risk attached to the possession of the idol, and laughingly suggested that he must take the risk with the privilege. On the evening of the unexpected election of M. Carnot as President, Gustave le Bon received a message from Mme. Carnot reading "The statue did it." President Carnot's death by assassination is a matter of history. In her will Mme. Carnot, who died some time after her husband's death, expressed the wish that the idol should not be kept in the family. This little tale is cousin—far removed—to "The Bisara of Pooree" in Kipling's "Plain Tales from the Hills."

Coming Congresses.—From October 1 to 10 next an International Congress of General Botany will be held in Paris, and promises to be an interesting gathering. The President of the Organising Committee is M. Prillieux, Senator, and the three Vice-Presidents include M. Georges Rouy, President of the French Botany Association. The General Secretary is M. E. Perrot, assistant professor at the Paris School of Pharmacy, and the school is also represented on the committee by MM. E. Bourquelot, Guignard, Guérin, and Lutz. The programme of the Congress includes the usual meetings and diseussions on questions relating to botany, also excursions and various local functions. M. Hua will bring forward a proposal to establish an international journal in which to publish new names for botanical science to prevent repetition of synonyms. Plants are to be exhibited during the Congress. The address of the General Secretary is 272 Boulevard Raspail, Paris, and the subscription 20f.—An International Congress of Pharmacists' Assistants is announced for September 10 to 14, and the meetings will be held in the large hall of the Bourse du Travail, Paris. The organisation of this Congress is in the hands of the Association of French Pharmacists' Assistants. Two of the objects are to improve the condition of assistants, notably by creating a special diploma for them, and to found an International Federation of Assistants. The subscription is 5f. It is interesting to note that the principal meetings of this Congress will commence at 10.30 p.m. The President of the French Assistants' Association will be glad to assist any foreigner who intends taking part in this Congress in obtaining hotel accommodation. Bedrooms can be had from 2*s.* per night and meals from 1*s.* 6*d.* each, or full board and lodging for 8*s.* per day, by applying to the President in advance. Facilities will be offered for taking part in excursions and for attending various functions in Paris.

Paris Exhibition Awards.

THE official list of the awards to exhibitors at the Paris Exhibition is composed of 334 closely printed sheets, containing some 50,000 names. We have endeavoured to wade through the lists consecutively, and we give here the result of our labours. We have restricted ourselves, as far as possible, to exhibitors connected with British pharmacy. The official arrangement in groups and classes has been followed.

Group I.—Education.

This group is divided into six classes. In Class 3, devoted to "Higher Education and Scientific Instruction," the Oxford and Cambridge Universities have each been awarded Grand Prizes. Gold medals have been awarded in the same section to the City and Guilds of London Institute, the Central Technical College, Extension University, and University College; and silver medals to the Sheffield University College, Durham College, and Holloway's Royal College. In the section dealing with special industrial and commercial education (Class 6), grand prizes go to the City and Guilds Institute Examination Department, and the L.C.C. Central School of Arts and Crafts. The Heriot-Watt College, Edinburgh, Borough Road Polytechnic, East London Technical College, and Coventry Municipal Technical Institute have each received gold medals, and silver medals have gone to Gordon's College, Aberdeen, Regent Street Polytechnic, and Keighley, Huddersfield, Shipley, Blackburn and Dundee Technical Institutes. Bronze medals in the latter class have been obtained by Coatbridge Mining School and Aberdeen Technical Institute.

Group II.—Works of Art.

No awards of pharmaceutical interest.

Group III.—Instruments and General Procedure in Letters, Science and Art.

Class 11.—Typography, &c.

Gold Medal.—Penrose & Co.
Silver Medal.—Cyclostyle Company.
Bronze Medals.—Penrose & Co., Cyclostyle Company.
Collaborator—Gold Medal.—W. Gamble (Penrose & Co.).
Collaborator—Silver Medal.—P. Neven (Penrose & Co.).

Class 12.—Photography.

Grand Prizes.—Royal Observatory, Greenwich (Collective exhibit of Photos in United Kingdom).
Gold Medals.—Autotype Company, J. H. Dallmeyer (Limited), Ross (Limited), Watson & Sons, Penrose & Co., Newman & Gaurdia (Limited), W. L. H. Skeen (Ceylon), E. Rowley (Toronto), T. & R. Annan (Glasgow), A. W. A. Plâté (Ceylon).
Silver Medals.—E. J. H. Spitta, F. H. Glew, A. Norman, A. W. Pringle, Colombo Apothecaries' Company, T. Manly, H. C. P Bell (Ceylon), W. Norrie (Frazerhurgh), H. W. Cavels (Ceylon), Dr. J. Mackenzie Davidson, C. S. Cockran (Canada), F. Hollyer, Professor W. W. Watts (Birmingham), J. Downer & Sons (Watford), W. J. Bryne (Richmond), F. W. Bois (Ceylon), Meisenbach Company (Limited).
Bronze Medals.—Lascelles & Co. (Limited), Bagot Molesworth, J. F. Jackson (Canada), J. J. Jefferson (Northallerton), C. Drenning (Ile Maurice), C. P. Butler, A.R.C.S., W. Saville Kent, F.L.S. (Croydon), R. A. Wolfenden, F. Marsh, W. D. Bosanquet (Ceylon), C. Hentschell, W. Andrews, F.G.S., J. T. Holder, J. H. Vincent, B.Sc., Mrs. A. Blake (Bedford), R. B. Lodge, J. Hort-Player, Layfayette.
Honourable Mention.—Symonds & Co.
Collaborator—Silver Medal.—J. Lane (Watson & Sons).

Class 15.—Instruments of Precision.

The juryman representing Great Britain was Mr. C. Vernon Boys.
Grand Prizes.—Gas Referees of the Board of Trade (Collective exhibit of Mathematical Instruments made in the U.K.), Cambridge Scientific Instrument Company, Ross (Limited), Warner & Swasey (Ohio).
Gold Medals.—J. J. Hicks, Watson & Sons, Negretti & Zambra, National Cash Register Company, Dayton (Ohio), Brown & Sharp Company (Rhode Island).
Silver Medals.—Brandt-Dent Company (Wisconsin), Lege & Co., Watson & Sons.
Bronze Medals.—American Optical Company, Massachusetts, International Arithmachine Company, Hygienic Optical Company (N.Y.), King Optical Company (N.Y.), Lemaitre Optical Company (N.Y.), Spencer Optical Company (N.Y.).
Honourable Mention.—Bay State Optical Company.
Collaborators—Silver Medal.—J. W. Moser (Cambridge Scientific Instruments Company), A. Higgins (J. J. Hicks), Pitman (Instruments of Precision made in the U.K.), Hill.

Class 16.—Medical and Surgical Instruments.

Grand Prizes.—Down Brothers, A. A. Marks (N.Y.).
Gold Medals.—J. J. Hicks, Gideon Sibley (Philadelphia).
Silver Medals.—Kny-Scheerer Company (N.Y.), Cambridge Scientific Instruments Company (Limited), Harvard Company (Ohio), Miller Rubber Manufacturing Company (Ohio), Ritter Dental Manufacturing Company (New York).
Bronze Medals.—Invalid Chair Company (N.Y.), Nowell & Company (Bombay).
Honourable Mention.—G. Haynes & Co., N. Tourangeau (Canada), New England Crutch Company (N.Y.).
Collaborators—Silver Medals.—E. Wellings and W. Sims (J. J. Hicks).
Collaborators—Bronze Medals.—F. Ritter, C. Fertig, O. H. & A. F. Pieper (Ritter Dental Manufacturing Company).

Group IV.

Class 19.—Steam Machinery.

Grand Prize.—Galloways (Limited).
Bronze Medal.—Tangyes (Limited).

Class 20.—Motors.

Grand Prize.—Crossley Brothers.
Collaborators—Gold Medals.—W. J. Crossley and D. H. Irwin (Crossley Brothers).
Collaborators—Silver Medals.—W. Turner, E. Pierce, J. Cooke, and A. Hooker (Crossley Brothers).
Collaborators—Bronze Medals.—J. Atkinson, W. Wilson, W. Mitchell, W. Schofield, and J. Carter (Crossley Brothers).

Group V.—Electricity.

Class 23.—Production and Mechanical Utilisation of Electricity.

The jurors representing Great Britain were Professor Ayrton and Mr. Gordon Salamon.
Grand Prize.—Siemens Brothers Co. (Limited).
Gold Medals.—C. A. Parsons & Co., Mather & Platt (Limited).
Silver Medal.—Robey & Co. (Limited).
Bronze Medals.—Vulcanised Fibre Company (U.S.A.), Belshaw & Co.
Honourable Mention.—Crown Woven Wire-brush Company (U.S.A.), Holmes Fibre Graphite Company (U.S.A.).

Class 24.—Electro-chemistry.

Mons. H. Moissan, President of Jurors.
Gold Medals.—Electric Power Storage Company (Limited), Chloride Electric Storage Syndicate (Limited).

Class 27.—Various Applications of Electricity.

Major-General Webber, C.B., representing Britain on jury.
Gold Medals.—Mica Insulator Company (U.S.A.), Crompton & Co.
Silver Medals.—J. J. Hicks, Ritter Dental Manufacturing Company, Stockall & Sons.
Honourable Mention.—American Electric Speciality Company.
Collaborators—Gold Medal.—A. Duddell (Cambridge Scientific Instrument Manufacturing Company).
Collaborator—Silver.—W. Burton (J. J. Hicks).
Collaborators—Honourable Mention.—G. Hanchette and F. Sage (American Electrical Speciality Company).

Group VI.—Means of Transport.

No awards of pharmaceutical interest.

Group VII.—Agriculture.

In this section Great Britain shows up well. In material and processes of rural exploitation (Class 35) seven Grand Prizes come to this country. In Class 38 (Agricultural Statistics) a Grand Prize is given to Sir J. B. Lawes and Sir H. Gilbert for their Rothamstead researches.

Class 39.—Alimentary Agricultural Products of a Vegetable Origin.

Grand Prizes.—Governments of Manitoba, New Caledonia, Ontario, United States, West Australian Royal Commission, Lipton (Limited)

Gold Medals.—Association of Ceylon Planters, J. W. de Soysa, Governments of Columbia, New Brunswick, Prince Edward Island, and North-West Canada, Lever Brothers, Spratt's Patent (Limited), Glucose Sugar-refining Company (U.S.A.).
Bronze Medal.—Royal Botanic Gardens.

Class 40.—Agricultural Foodstuffs of Animal Origin.

Grand Prizes.—Three go to Canada, and one to the London and Provincial Dairy Company.
Gold Medal.—Mellin's Food (Limited).
Silver Medals.—Protene Company (Limited), Armour & Co. (U.S.A.).

Class 41.—Non-alimentary Agricultural Products.

Grand Prizes.—Collective exhibit of the Royal Commission of Western Australia, Collaroy & Co, American Cotton-seed Oil Company (U.S.A.).

Class 54.—Instruments and Products of Cultivation.

Grand Prizes.—Exploitation of Cinchona-cultivation in Bandoeng, C. Buchet et Cie.
Silver Medal.—Royal Botanic Gardens.
Collaborators—Gold Medals—Dr. Van Leersum and A. Lotsy (Bandoeng Cinchona-cultivation).

Group X.—Alimentation.

Class 55.—Materials and Processes for Foodstuff Industries.

Grand Prizes.—T. Robinson & Sons (Limited), Durafort & Son.
Gold Medals.—Riley Manufacturing Company, Aërators (Limited), Continental Sparklets Company, Swift & Co. (U.S.A.).
Silver Medals.—Armour & Co., Protene Company (Limited).



Design of Diploma.

Gold Medal.—Canada (collective exhibit), Lever Brothers (Limited).

Group VIII.—Horticulture.

Non-pharmaceutical in interest.

Group IX.—Forests, Hunting, Fishing, and Crops.

Class 53.—Instruments and Products of Fishing and Agriculture.

Grand Prize.—Peter Möller (Norway).
Gold Medals.—Peder Devold (Norway), C. Jordan (Norway), New Bedford Oil Company (U.S.A.), Société des Huiles dé poisson (Japan).
Silver Medal.—Anderson, Anderson & Anderson (Limited).

Collaborators—Silver Medals.—F. Vob and P. Kohler (Werner, Pfleiderer & Co.), W. Bruce (Riley Manufacturing Company).
Collaborators—Honourable Mention.—F. Stoll and P. Brosshard (Werner, Pfleiderer & Co.).

Class 56.—Farinaceous Products and their Derivatives.

Grand Prize.—J. & J. Colman (Limited).
Gold Medal.—Cereal Food Company (U.S.A.).
Silver Medals.—Health Food Company (U.S.A.), U.S. Frumentum Company.
Bronze Medals.—Mellin's Food (Limited), Protene Company (Limited), J. Edmunds, Hill & Son.

Class 57.—Bakery and Pastry Products.

Juror for Great Britain—Mr. W. Jago, F.C.S.
Gold Medal.—Spratts Patent (Limited).

Silver Medals.—Hill & Son, Mellin's Food (Limited), Old Calabar Biscuit Company, Protene Company (Limited).
Collaborator—Bronze Medal.—R. Green (Protene Company).

Class 58.—Preserved Meats, Fish, and Fruits.

Gold Medals.—Bovril (Limited), Brand & Co., Armour & Co.
Silver Medals.—Lipton (Limited), J. Edmuuds, Armour & Co.
Collaborators—Bronze Medals—W. Elliot and A. Searle (Bovril, Limited).

Class 59.—Sugars, Confectionery Products, Condiments, and Stimulants.

Grand Prize.—Crosse & Blackwell (Limited).
Gold Medals.—Lipton (Limited), Great Britain ; Lipton (Limited), Ceylon.
Bronze Medals.—Coombs (Limited), J. Edmunds, Windsor Salt Company.

Class 61.—Syrups, Liquors, Various Spirits, and Industrial Alcohols.

Bronze Medal.—Idris & Co. (Limited).

Class 62.—Sundry Drinks.

Juror for Great Britain—Mr. E. J. Parry, F.I.C.
Gold Medals.—Idris & Co. (Limited), Schweppes (Limited).
Silver Medals.—J. Symons & Co. (Limited), A. Riddle & Co. (Limited), Continental Sparklets Company.
Bronze Medal.—Belfast Mineral-water Company (Limited).

Group XI.—Mines and Metallurgy.

Class 63.—Exploitation of Mines, Ores, &c.

Grand Prizes.—Several have gone to Canada and Australia, and one to the "South African Republic."
Gold Medals.—Morgan Crucible Company, New Almaden Quicksilver Mining Company (U.S.A.).
Silver Medals.—Windsor Salt Company, Bell's Asbestos Company.
Bronze Medal.—Nichols Chemical Company.
Honourable Mention.—Fossil Flour Company, Kenuey Talc Company (U.S.A.)

Class 64.—Heavy Metals.

Gold Medal.—British Aluminium Company (Limited).

Class 65.—Light Metals.

Silver Medals.—W. Avery & Son, Puckridge & Nephew (2).

Group XII.—Building and Decoration.

Class 73.—Crystal and Glass.

Gold Medal.—Riley Manufacturing Compauy.
Honourable Mention.—Breffit's (Limited).

Class 74.—Heating and Ventilation.

Gold Medal.—Blackman Ventilating Company.

Group XIII.—Threads, Textiles, Vestments.

Class 77.—Materials and Processes for the Fabrication of Textiles.

Silver Medals.—Singer Manufacturing Company, Crossley & Co. (Limited).

Class 78.—Material and Products for Bleaching, Dyeing Textiles, &c.

Silver Medal.—Viscose Syndicate (Limited).

Group XIV.—Chemical Industry.

Class 87.—Chemistry and Pharmacy.

Representing Great Britain on the Jury, Professor Meldola, F.R.S., and Dr. Douglas Hogg, of Paris. Amongst the jurors for France was Mons. L. Adrian (Adrian et Cie.).
Grand Prizes.—Alkali Manufacturers' Association of Great Britain (collective exhibit), Howard & Sons, J. C. & J. Field (Limited), Lever Brothers (Limited), T. & H. Smith & Co., Price's Patent Candle Company (Limited), Standard Oil Company (New York), Tripler Liquid Air Company (New York), Buchet et Cie., Poulenc Frères (Paris), Taillandier (Argenteuil).
Gold Medals.—Macfarlau & Co, C. Lowe & Co., Borax Consolidated (Limited), Mander Brothers, J. Riley & Sons, Kestner & Co., Pointet et Girard, Wilkinson, Heywood & Clark (Limited), Day & Martin (Limited), Valentine & Co. (New York), Vacuum Oil Company, Armour & Co., Sarg Fils et Cie. (Austria), G. Haynes & Co., Société Fédérale des Pharmaciens de France, F. Roques et Cie. (Paris), Boulanger-Dausse et Cie. (Paris), Société Centrale des Produits Chimiques (Paris), C. Erba (Milan).
Silver Medals.—J. & J. Colman (Limited) (2), Elliman, Sons & Co., B. Coventry (Bengal), Lyman Brothers & Co. (Toronto), Sutton & Sons, Burma Oil Company (Rangoon), Thomsen Chemical Company (U.S.A.), Seabury & Johnsou (New York), Michigan Carbon Works, Armour Packing Company, Mere et Cie. (Orleans), J. Raspail (Paris).
Bronze Medals.—W. Edge & Sons (Limited), Canada Paint Company, Burford & Sons (Limited), Faulding & Co., Fullers' Earth Union (Limited), Holzapfels Compositions Company (Limited), Klapporth, Craigie & Co., Puckridge & Nephew, W. Freck Company (Chicago), W. Jandus (Ohio), Lambert Pharmacal Company (St. Louis), Muzzy Brothers (Paterson, N.J.), Swift & Co. (Chicago), W. Warner & Co. (Philadelphia), A. Castells, Friolet & F. Llebres (Cuba).
Honourable Mention.—Patent Borax Company (Limited), J. W. Weeks & Son, P. L'Hoste and J. Cowin (Mauritius), Cyona Company, Muralo Company (N.Y.), R. H. Foederer, Cupigraph Company and Blichert Manufacturing Company (U.S.A.), C. E. Bénésullier, F. Jacquot, J. Winterberger (C. Buchet et Cie.), P. Tribouley, C. Jouan, J. Papon (Adrian et Cie.).
Collaborators—Gold Medals.—G. Leonard (Borax Consolidated, Limited), J. Elliot Shaw (Howard & Sons), L. Soret (Poulenc Frères).
Collaborators—Silver Medals.—T. R. Blyth (Howard & Sons), F. English (J. Riley & Sons), A. G. Ross (Alkali Manufacturers' Association), E. Schiffmann (Pointet et Girard), C. Delyon (Poulenc Frères).
Collaborators—Bronze Medals.—J. B. Kuight, H. W .Murray, and W. Johnsou (Howard & Sons), J. Bateman (J. C. & J. Fields, Limited), A. A. and C. E. Movrill, C. S. Horner, and A. L. Phillips (Valentine & Co.), C. J. L. Castel and A. Perimony (Buchet et Cie.), C. Curt (Pointet et Girard).

Class 90.—Perfumery.

British representative on the Jury, Mr. J. Laurier.
Grand Prizes.—A. & F. Pears (Limited), J. & E. Atkinson (Limited), Colgate & Co. (New York), A. Brocart et Cie. (Russia), A. Rallet et Cie. (Russia), J. G. Mouson & Co. (Germany), J. M. Farina (Cologne).
Gold Medals.—J. Gosnell & Co. (Limited), J. Grossmith, Sons & Co., Shipkoff & Co. (Kazanlik), H. & G. Hotchkiss (New York), Jeancard, Gazau & Doumin (Cannes).
Silver Medals.—J. Jakson & Co., J. B. Williams Company (Connecticut), J. C. & J. Field (Limited), Lever Brothers (Limited), Lyman, Sons & Co. (Montreal), Warrick Frères, Sen-Sen Company (U.S.A.), J. Raspail (Paris).
Bronze Medals.—J. M. Fariua, A. Savage & Sou (Montreal), Patent Borax Compauy (Limited), Richter & Co. (Russia).
Honourable Mention.—Kartini Malouf Frères (Moutreal), Bremer Company (U.S.A.), P. Rieger & Co. (California).
Collaborator—Gold Medal.—A. Biscaye (Roger et Gallet).
Collaborator—Silver Medal.—A. Hutinet (R. & G.)
Collaborator—Honourable Mention.—J. Bateman (J. C. & J. Field, Limited).

Class 91.—Tobacco, &c.

The United States show up well in this sectiou.
Gold Medals.—Collective exhibit of Canada, Ogden's (Limited), Teofaui & Co.
Silver Medal.—Oakes & Co.

Group XV.—Various Industries.

Class 92.—Stationery.

Grand Prize.—National Cash Register Company (U.S.A.).
Gold Medals.—Winsor, Newtou & Co. (Limited), G. Rowney, J. Mitchell, W. Mitchell.
Silver Medal.—John Bond's Marking-ink.
Bronze Medals.—G. Bennet, J. J. Field, Arnold, Automatic, Cyclostyle, Aërograph, Perfect Mucilage Company.

Class 98.—Brushes, &c.

Grand Prize.—Aberdeen Comb Works.
Gold Medals.—Mappin Brothers, Ellmore & Sons (Limited).
Many Indian States gain prizes in this section.

Class 99.—Indiarubber and Guttapercha Goods.

Juror for Great Britain, Mr. Boverton Redwood.
Gold Medals.—Canadiau Rubber Company, Hopkinson & Co.
Silver Medals.—Scott & Son, Auderson, Anderson & Anderson (Limited).

Group XVI.—Social Economy, Hygiene, and Public Help.

Class 102.

Iu this section devoted to "Wages and Participation in the Benefits of Trading," a gold prize has been awarded to Lever

Brothers (Limited), and a gold medal to Mr. Wilson Fox, of the Labour Commission of the Board of Trade, as a collaborator.

Class 106.—Workmen's Houses.

Grand Prize.—Lever Brothers (Limited).
Gold Medal.—London County Council.

Class 108.—Institutions for the Moral and Intellectual Development of Workers.

Grand Prize.—National Cash Register Company.

Class 111.—Hygiene.

Juryman for Great Britain, Dr. Faure-Miller.
Many U.S. health-institutions have been awarded gold and silver medals.
Grand Prizes.—Compagnie fermière de l'établissement thermal de Vichy, Town of Buda-Pesth.
Gold Medal.—Hunyadi János Waters.
Silver Medals.—Jeyes' Sanitary Compounds Company (Limited), H. K. Mulford Company (U.S.A.), Parke, Davis & Co., Rubinat-Slorach (Spain), Apenta Waters, Taskinas Mineral Springs Company (U.S.A.)
Bronze Medals.—Blackman Ventilating Company, Pocono Laboratories (U.S.A.)

Class 112.—Public Help.

Grand prizes go to the Pasteur Institute, Charity Organisation Societies of Great Britain and America, and many other English and American institutions. Sir Kenelm Digby, of the Home Office, is awarded a Grand Prize as a collaborator, and Mr. Legge, chief inspector of industrial schools, gets a gold medal.

Group XVII.—Colonisation.

Class 113.—Colonisation Procedure.

Grand Prize.—The Anglo-Indian Government.
Silver Medal.—Davidson (Ceylon).

Class 115.—Special Products for Colonial Export.

Grand Prizes.—Ceylon Chamber of Commerce, C. Buchet et Cie.
Collaborator—Gold Medal.—H. Gillet (Buchet et Cie.).

Group XVIII.—Armies on Land and Sea.

Class 119.—Cartography, Hydrography, Various Instruments.

Gold Medal.—Negretti & Zambra.
Silver Medals.—J. J. Hicks, E. S. Ritchie & Sons (U.S.A.).
Bronze Medal.—A. Lege & Co., J. Pain & Sons.

Class 120.—Administrative Services.

Gold Medals.—Brand & Co., Bovril (Limited), Société Française de meunerie et de panifiction, système Schweitzer.
Silver Medals.—Aërators (Limited), H. Peat & Co., Gauntaud & Son.
Bronze Medal.—Wilson & Stockall.

Class 121.—Hygiene and Sanitary Materials.

Bronze Medals.—Down Brothers, Wilson & Stockall, Paté Burke & Co.

The distribution of awards took place last Saturday afternoon, August 18, in the Salle des Fêtes at the Exhibition. Some 15,000 persons were present, and the ceremony was presided over by M. Loubet, the President of the French Republic. It was an imposing function, and included a procession of the official representatives of the forty foreign Powers who have participated in the Exhibition; many of the officials wore gorgeous uniforms, and each nation was also represented by a standard-bearer. A cantata was sung by a chorus of 500 voices, glorifying the success of the Exhibition. It opened with the stanza "At last the clamours of war are nothing more than a recollection." After this President Loubet made a speech suitable to the occasion. He said that all exhibitors might be proud, foreigners and French alike, of having made their mark at the Exhibition. The ceremony ended with a concert, followed by a *fête* in the evening.

Glass Bricks.—It is stated that Dr. Ormondy has discovered a practicable means of making bricks from the spent sand and glass resulting from the operation of grinding plate glass. Messrs. Pilkington Brothers, of St. Helens, have laid down plant to work the new brick-making process.

Pharmaceutical Veterans.

Ralph Shorrock.

THE younger members of our editorial staff instinctively reverence a caller who says he has subscribed to The Chemist and Druggist from the commencement. Mr. Ralph Shorrock, Darwen, is one of our original subscribers, although to hear his cheery laugh and see his sprightly movements you would not think he had the necessary age-qualification. He was born at Spring Vale in 1836, and when 8 years old became a half-timer and worked in the throstle-room at New Mill, where his father was engineer. From this time until he was 17 young Shorrock spent his leisure in acquiring knowledge, and had resolved to exchange the weaving-alley for the chemist's shop. He apprenticed himself to his cousin, Richard Shorrock, who died at about the same time the apprenticeship was completed, whereupon Mr. Shorrock took charge of the business on behalf of the widow, whom he subsequently married.



Ralph Shorrock.

Shortly after he opened a branch shop, which soon became as well known as the original shop.

Mr. Shorrock now turned his attention to dentistry, and after three years' instruction by Mr. Thomas Deane, of Manchester, began a dental practice of his own. Then followed a period of financial losses and a lawsuit, owing to connection with some of the many companies which sprang up after the passing of the Companies Act, but the tide soon turned in his favour. Among his friends Mr. Shorrock is sometimes known as the "Bishop of Blacksnape," owing to the great interest he takes in the spiritual welfare of Blacksnape, where he has for twenty years superintended the Sunday-school, and occasionally conducted the evening service. Mr. Shorrock has for twelve years been on the Darwen Town Council, which shows that his fellow-townsmen respect him and rely on his judgment; he is also President of the Darwen Tradesmen's Association. Mr. Shorrock has been three times married; one of his daughters, Mary, is a pharmaceutical chemist, having passed the Major examination in July, 1897.

The Réaumur Thermometer is not to be admitted for official verification after January 1, 1901, in the German Empire, so that the Centigrade thermometer will probably become universal in Germany.

Calcium Carbide in India.—A recent number of the Indian *Gazette* contains the rules regulating the importation of carbide of calcium (other than carbide of calcium belonging to Government) by sea into the Presidency of Madras, Madras being declared to be the only port at which it may be imported, and also the rules regulating the granting of licences to possess or transport such carbide of calcium.

Pharmaceutical Society's By-laws.

THE following is the text of a petition to the Privy Council, which has been signed by over six hundred persons connected with pharmacy in Scotland:—

To the Lords of her Majesty's Most Honourable Privy Council.

The petition of the following pharmaceutical chemists and chemists and druggists, members and non-members of the Pharmaceutical Society, and registered pharmaceutical students in Scotland, humbly sheweth:—

1. That your petitioners strongly object to the passing of the proposed new by-law 23 of Section X. of the by-laws of the Pharmaceutical Society of Great Britain, which have been submitted to your Lordships for confirmation.

These by-laws have been passed with unprecedented haste. They were first heard of by members of the Pharmaceutical Society in Scotland generally on July 7 or 9 last. They were finally approved by the Council on August 1, and on the same day they were approved, with one dissentient, at a general meeting of the Society held in London. The attendance at this latter meeting consisted mainly of members of Council. In the brief period of twenty-six days from publication the whole process of adopting new by-laws was completed. There has thus been insufficient time for members in Scotland to consider the effect of the new by-laws and arrange for any action that might be necessary. Many were away on holidays, and were unaware of what was being done. We submit that there was no necessity for such haste.

2. There was a general consensus of expectation that the Council had agreed to make it plain in the new by-laws that any candidate becoming ill before the commencement or during the progress of any examination, and producing a satisfactory medical certificate to that effect, would be admitted to a subsequent examination on payment of a nominal fee of 1*s.*, as is provided for in the existing by-laws, and in accordance with the regulations of the Boards of Examiners for a long period of years, ultimately embodied in the by-laws approved by your Lordships in 1879. The semi-official assurance that this would be done prevented the careful watching of the new proposals and the action that would otherwise have been taken. To the great disappointment of registered chemists and pharmaceutical chemists in Scotland, it now appears that this reasonable provision in cases of illness, instead of being made clearer, is to be abolished, and they have been misled into a false security by the semi-official assurance aforesaid. When this new proposal was made it was intended to send a deputation of Scottish members of the Society to the general meeting in London to oppose the new by-laws, but owing to the holiday season and other causes it was found impossible to do this in the short time available. There is, therefore, no other course open to members than to memorialise your lordships to withhold sanction of the by-laws until the provision which we desire to see retained is added to by-law 23 of Section X. This memorial is also joined in by registered chemists who are not members of the Society and by registered pharmaceutical students, all of whom are affected by the proposed by-laws, and have no other means of making their views and wishes known.

3. The proposed abolition of this provision for excusing absence due to an unavoidable and proper cause is coincident with an increase of the Minor or qualifying examination-fee from 5*l.* 5*s.* to 10*l.* 10*s.*, and with the abolition of the Society's Preliminary examination, necessitating a fee to an outside examining body, in addition to the fee of 2*l.* 2*s.* to the Society. In the case of a student who attends the practical portion of the Minor examination and satisfies the examiners, but is taken suddenly ill before the oral portion of the examination, held probably a week later, he not only has paid 10*l.* 10*s.* and the cost involved in attending the practical portion of the examination, but has also incurred medical expenses and the additional cost of keeping himself up in his studies for another term, and the expenses of attending another examination, and has suffered the disappointment of not being able to pass his examination owing to no fault of his own. Under the existing regulations, with one-half the examination-fee, a student who satisfies the Board or the Council that his failure to attend is due to an unavoidable and proper cause is permitted to come to a subsequent examination on payment of 1*s.* We submit that, *à fortiori*, under the new proposal and higher fee this reasonable provision should remain, and that its proposed abolition is hard and unjustifiable. It will press particularly heavily on students in Scotland, where large numbers of apprentices are trained. It is the custom in England for the pharmaceutical apprentices to pay a premium to be trained, and to reside with their employers. In Scotland apprentices are paid wages, and reside at home. Consequently apprentices in Scotland are for the most part drawn from a social grade to whom examination-expenses are a serious financial burden. The omission of this provision in the proposed by-law would consequently press heavily on those desiring registration under the Pharmacy Acts in Scotland, and would further needlessly increase the difficulty in securing suitable apprentices which is already becoming a matter of considerable anxiety.

4. The provision for excusing absence from an examination or portion of an examination for sufficient reasons, which the new by-laws propose to abolish, is in keeping with the Scottish universities and all other examining corporations in Scotland, and we also understand with that of the leading examining corporations in England. We therefore desire to have it retained.

5. We therefore, members of the Society, registered chemists and pharmaceutical students in Scotland, respectfully request her Majesty's Most Honourable Privy Council to withhold sanction of the proposed by-laws of the Pharmaceutical Society of Great Britain until the following or similar addition to by-law 23 of Section X. has been adopted by the said Society, viz.:—

"Or if the persons shall have proved to the satisfaction of the Council, by production of medical certificates or otherwise, that the said failure or absence was occasioned by an unavoidable and proper cause, the nominal fee of 1*s.* shall be payable."

And your petitioners will ever pray.

Chemists and druggists or others interested who have not had the opportunity of signing the petition, and who agree with it, are requested to write to that effect to the Secretary of the Privy Council, Whitehall, London.

New Books.

Allen, Martha M. *Alcohol a Dangerous and Unnecessary Medicine.* London. 6*s.*

Baruch, S. *Principles and Practice of Hydrotherapy.* 8vo. 16*s.* net. (Baillière.)

Beck, C. *Fractures: with an Appendix on the Practical Use of the Röntgen Rays.* Illus. 8vo. Philadelphia, London. 18*s.*

Blanchan, N. *Nature's Garden: Aid to Knowledge of our Wild Flowers and their Insect Visitors.* $10\frac{3}{8} \times 7\frac{3}{8}$. Pp. 432. 12*s.* 6*d.* net. (Heinemann.)

Bottone, S. R. *Electrical-instrument Making for Amateurs.* $7 \times 4\frac{7}{8}$. Pp. 288. 3*s.* 6*d.* (Whittaker.)

Carwardine, T. *Operative and Practical Surgery for Students and Practitioners.* $8\frac{3}{4} \times 5\frac{3}{8}$. Pp. 682. 10*s.* 6*d.* net. (J. Wright.)

Gould, G. M., and Pyle, W. L. *Cyclopædia of Practical Medicine and Surgery.* Complete Reference-book. 4to. 42*s.* net. (Rebman.)

Gregory, R. A., and Simmons, A. T. *Elementary Physics and Chemistry.* 2nd stage. $7\frac{1}{8} \times 4\frac{7}{8}$. Pp. 148. 1*s.* 6*d.* (Macmillan.)

Gross, E. *Hops in their Botanical, Agricultural, Technical, and Commercial Aspect.* Trans. from German. 78 illus. 8vo. 12*s.* 6*d.* net. (Scott, Greenwood.)

Jones, H. L. *Medical Electricity: Practical Handbook for Students and Practitioners.* $7\frac{1}{4} \times 4\frac{7}{8}$. Pp. 548. 10*s.* 6*d.* (H. K. Lewis.)

Manson, P. *Tropical Diseases: Manual of Diseases of Warm Climates.* Enl. ed. $7\frac{1}{2} \times 4\frac{3}{4}$. Pp. 704. 10*s.* 6*d.* (Cassel.)

Moor, W. O. *Pomegranate Treatment of Opium and Morphine-poisoning.* 8vo. 1*s.* 6*d.* net. (Baillière.)

Oils, Tallow, and Grease (The), for Lubrication, for Practical Compounding. $9 \times 5\frac{3}{4}$. Pp. 102. 7*s.* 6*d.* net. (Scott, Greenwood.)

Ostwald, W. *Scientific Foundations of Analytical Chemistry Treated in Elem. Manner.* 2nd Eng. ed. $7\frac{7}{8} \times 5\frac{1}{8}$. Pp. 238. 6*s.* net. (Macmillan.)

Paterson, D. *The Science of Colour-mixing.* $8\frac{3}{4} \times 5\frac{1}{2}$. Pp. 148. 7*s.* 6*d.* net. (Scott, Greenwood.)

Rideal, S. *Glue and Glue-testing.* Illustrated. $8\frac{3}{4} \times 5\frac{1}{2}$. Pp. 152. 10*s.* 6*d.* net. (Scott, Greenwood.)

Retrospect of Medicine. Ed. by James Braithwaite and E. F Trevelyan. Vol. 121. Cr. 8vo. 6*s.* 6*d.* (Simpkin.)

Argentine Borax.—In the province of Jujuy, Argentine Republic, there are sixteen mines containing borate deposits, at present unworked. On analysis of a sample of borate of lime taken from one of these mines, it was found to yield 40 per cent. of boric acid. The mines are situated about ninety miles from the railway at the town of Jujuy, and it is this fact which has prevented their development.

War Notes.

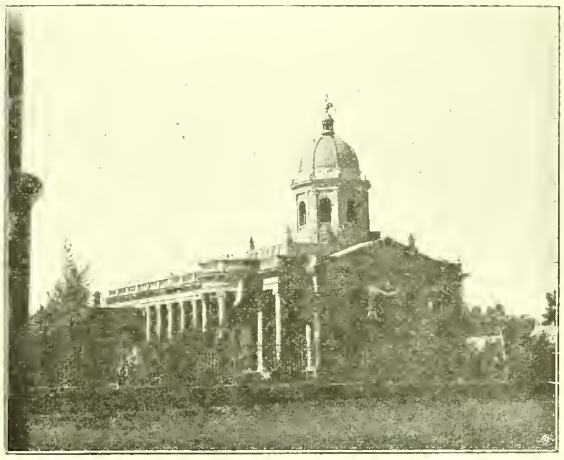
Civil Compounders' Experiences.—Our correspondent at Pretoria in his descriptive letter this week continues an interesting narrative of hospital work in the "garden" city:—

Model Staat School, Pretoria, S.A.R., July 26, 1900.

My last note was dated July 18, from Artillery Barracks Hospital. The following morning I left the barracks to dispense for the Model School Hospital. The Staff consisted of Civil surgeons and Volunteer nurses from Pretoria. I at once started fitting up a surgery, by placing rows of forms on the school desks and "commandeering" the drugs from a pharmacy which had been closed up in town, a note being taken of everything brought away with us. In the store-room was a huge stock of surgical dressings of every description, supplied to the Boers by nearly every Red Cross Society in the world, with the notable exception of the U.S.A., chiefly hydraulic compressed French dressings. This building had been our officers' place of confinement during the war, and from one of the rooms Mr. Winston Churchill made good his escape. In one of the wards, on the wall, a couple of very fine maps, each about 10 feet square, are to be seen representing South Africa, and showing the scenes of operations. Boer positions are marked black, British red. At the side a skeleton is painted pointing to the scene of operations. This was the work of one of the officers during his imprisonment. On getting the dispensary fitted up, I made up several mixtures for stock in Winchester quarts, with ℥j. doses. For about three weeks I was dispensing occasionally for the Bourke Hospital for officers, next door, besides supplying the medical officers with Roberts's forces with drugs and dressings—a number of requisitions coming in daily. On the following Monday I walked down and saw the museum—a small building with a curved galvanised-iron roof; at the door a sentry was posted. At the entrance is a magnificent model of the ss. *Dunvegan Castle*. Everything is cramped together through want of space. Over the door is a bronze casting of Oom Paul. Amongst the specimens are a fine collection of birds, animals of every description, and a number of models of the famous nuggets from the Rand mines. I asked to see the Jameson Raid relics, but was promptly told they were gone. An officer was busy gathering everything that belonged to us—medals, officers' jackets, and rifles. The Palace of Justice here is about the finest building I have ever seen. Inside it is simply magnificent, with white pillars and a huge dome of fine plaster-work overhead. At present it is being utilised by Lord Iveagh's Irish Hospital, having accommodation for over a thousand patients. It was a pretty sight with the sun's rays shining through the stained-glass roof-lights on the cots, with their multicoloured covers, standing on the mosaic-worked floor. The next morning I was down town requisitioning for blankets, and on the way I saw the native convicts cleaning the streets with their black warders watching over them with rifles slung over their shoulders. I had to dispense medicines for Lord Kitchener, General French, and Prince Alexander of Teck on the following days. Our mess was fixed up in a tent in the back yard, a blackboard being used as a table, with a piece of white calico for a table-cover. Lord Roberts, with his Staff, passes the hospital regularly, his residence being close at hand. On the Wednesday I was over at the station with dressings to leave by train. Everything was bustle, a large number of blacks, with their wives, being sent down country. Beside our hospital also is the Dutch Hospital, and everything there is a model of neatness. In the operating-room is a fine cabinet, with the surgical instruments arranged on glass shelves. At this date the regular Army sisters took over the places of the Volunteer nurses. The hospital up till lately had been worked by regimental orderlies unfit for active service, late prisoners at Waterval. A number have been replaced by a batch of the Cape Medical Staff. On Friday, the 13th inst., I had to rise at 2 A.M. to assist in dressing a batch of wounded belonging to the Scots Greys and Lincoln Regiments. One poor fellow of the Lincolns had been struck on the side of the head with a "pom-pom shell" causing a wound large enough to put one's fist in. Strange to say, he lasted forty-eight hours, being conscious at intervals. The following day Lord Roberts paid them a visit. This day a couple of Highlanders were brought in helplessly drunk: one died on arrival, the other was saved by the aid of the stomach-pump. The hospital was practically emptied of its sick on the 17th inst. The following day another compounder arrived from Bloemfontein, taking the dispensing for the Bourke Hospital off my hands, staying here and using our dispensary. An operating room was fitted up, containing a pharmacy for exhibition-purposes only. We are living here much better than we did when on the field: each man receives 1 lb. of bread per diem, and 1 lb. of jam per week. The want of vegetables shows itself very much on the fellows' skins, boils of all sorts being very common. One morning a fatigue-party arrived and shifted our surgery and stores into a smaller room. This proved to be much too small, so we fitted up a dispensary in a bell tent in the back yard, taking in all the drugs most required. It will be much healthier living out in the open. There is much petty jealousy shown us by the non-coms., and the Staff-Sergeant on the hospital Staff takes pleasure in making himself as disagreeable as he can towards us. The weather continues good, though rather cold at nights, and the health of the other compounders, as well as my own, continues excellent. I must thank you again for the copies of the *C. & D.* you send me so regularly. I can assure you they are much appreciated.

Mr. Joseph Beecham, Mayor of St. Helens, announces that his war fund, now closed, amounts to the handsome sum of 7,764*l.* 6*s.* 8*d.* Of this sum 3,504*l.* 4*s.* 4*d.* has been collected at the chemical and other works in the town.

From Bloemfontein our camerist correspondent has sent us some interesting views of the town and various



Bloemfontein.

Parliament House (Raadzaal), used as a Hospital.

camp-scenes. We print two, showing the oft-mentioned Raadzaal and a group of R.A.M.C. non-commissioned



Bloemfontein.

Group at Tent-door.

officers and compounders, with their field-equipment at their tent-door.

At Pretoria, early in July, the first cricket-match by British troops took place between teams of the Royal Army Medical Corps and the Royal Engineers, when the former team won by 17 runs. The point of interest lies in the fact that at least one Volunteer Civil compounder played on the winning side. Corporal F. W. Sayers, chemist and druggist, in keeping wicket, caught one of the opposing side and stumped one, and then laying aside the pads he cleaned bowl Gill, of the Engineers.

Scientific Progress.

The Alkaloid of Ceanothus Americanus.—Gordin (*Pharm. Revue*) has separated from this North American plant a crystalline, snow-white body, which melts at 255°. A second base was also obtained from the mother liquors of the first which melts at 200°. Further investigations on these bodies are proceeding.

The Odour of Valerian-root.—Carles (*Journal de Pharmacie*, 1900, 148) points out that valerian-root, when in full vegetation, possesses practically no odour, whereas the dry root has developed the full characteristic valerian-odour. On calcining the washed root (or an aqueous extract of it) the ash is found to be very rich in manganese. These facts suggest the presence of an oxydase which acts in some way on the alcohols, aldehydes, and hydrocarbons present. It appears on closer examination that some natural manganese compound assists in the oxidation processes, and in this fact lies the possible explanation that artificial valerianates and essential oil of valerian are unfit to replace entirely the galenical preparations of the drug.

The Chemistry of Larch Turpentine.—Tschirsch and, Weigel have made an examination of the crude oleo-resin of *Larix decidua*. The following analytical results were obtained on treatment with alcoholic potash solution:—

—	Acid No.	Ester No.	Saponification No.
1	71·40	71·20	145·60
2	72·80	64·40	137·20
3	70·00	72·80	142·80
4	71·40	74·20	145 60

The isolated resin acid, which the authors term laricolic acid, melts completely at 147°–148°. It crystallises in colourless leaflets or tablets, and is soluble in all the usual organic solvents (*Archiv. der Pharmazie*, 1900, 387).

New Eucalypts.—Baker has recently examined and named three new species of *Eucalyptus*, all natives of the Eastern colonies of Australia. *E. oreades*, a "mountain ash," is a tall tree with smooth whitish bark. The fresh leaves yielded 1·16 per cent. of oil. The sp. gr. was 0·8869, or 0·8646 when rectified; rotation −25° 6′. No eucalyptol, but a very large quantity of phellandrene, was found present. A little eudesmol was also found. A "spotted gum" receives the name *E. maculosa*. The oil from this species was obtained to the exteut of 1·06 per cent. No phellandrene was found, but a small quantity of dextropinene, sp. gr. 0·9858, and optical rotation + 3° 66′. The rectified oil (87 per cent. of the crude) had a sp. gr. 0·9075, and contained 48 per cent. of eucalyptol. "Bastard mahogany" becomes *E. patentinervis*. The oil of this species has not been examined.

The Estimation of Colchicine.—The instability of this base towards both acids and alkalies renders its separation and estimation a matter of some difficulty. According to Gordin and Prescott (*Apotheker Zeitung*, 1900, 521), the best method of estimating the base is as follows:—25 grammes of the finely powdered drug, either corm or seed, is extracted for two hours in a Soxhlet with 95-per-cent. alcohol. The alcohol is distilled off, and the oily residue is treated with 10 c.c. of hot water. On cooling 2 or 3 c.c. of petroleum ether is added, the whole well shaken and allowed to stand for fifteen to twenty minutes. The oily layer is then found on the surface of the aqueous liquid which is separated off into a flask holding 100 c.c., a little water being used to wash the separator. Traces of alkaloid are removed from the oily layer by heating with water, and again treating with petroleum, &c., and the alkaloid estimated by titration with Mayer's or Wagner's reagent.

The Estimation of Santonine.—According to Katz (*Annales de Chem. Anal.*, 1900, 312), the best method for determining accurately the amount of santonine is to exhaust the seeds (10 grammes) with ether in a Soxhlet for two hours. The ether is distilled, when about 1·7 gramme of a green resinous extract is left. This is transferred to a flask, and 0·5 gramme of $Ba(OH)_2$ in 100 c.c. of water is added. The whole is boiled for twenty minutes under a reflux condenser, and on cooling the liquid is saturated with carbonic-acid gas. The barium carbonate is filtered off, and the precipitate washed with water, the filtrate being then evaporated to about 20 c.c.; 10 c.c. of 12·5-per-cent. hydrochloric acid is then added, and the mixture warmed for two minutes on the water-bath. The liquid is then transferred into a decanting-flask and the separated crystals of santonine are dissolved in 20 c.c. of chloroform, which is poured into the flask, and the whole well shaken. The separated chloroformic layer is evaporated (the vessels being washed twice with the solvent to retain the last traces of santonine), and the residue boiled for ten minutes with 50 c.c. of 15-per-cent. alcohol under a reflux condenser. The liquid is then filtered hot, and the filtrate on evaporation leaves the santonine (1·2 to 3·2 per cent.).

Are Arsenic and Antimony Elements?—The recent sensational announcement by Professor Fittica that arsenic is a compound of phosphorus, nitrogen, and oxygen (PN_2O) has so much of the improbable in it that it has not attracted serious attention. Still Winckler has gone to the trouble of attempting to disprove the suggestion experimentally, which action is worth all the criticism in the world. Fittica's two points are that (1) phosphorus in which he could find no trace of arsenic yielded this body when oxidised by nitrate of ammonium; (2) that the same sample of phosphorus. when oxidised under different conditions, yielded arsenic in amount varying from 0 to 8 or even 10 per cent., whereas the quantity would be constant if the arsenic were present as an impurity. Winckler points out that arsenic exists in *all* ordinary phosphorus, and often in an oxidised state, in which special precautions are required to detect it. Moreover, he analysed a sample and found it to contain 1·92 per cent. of arsenic. After oxidation with ammonium nitrate it was found to contain 1·91 per cent., which varies only from the original amount by sufficient to be accounted for by an experimental error. Fittica now replies that Winckler does not observe his experimental conditions, and maintains the correctness of his assertion. He says, further, that if phosphorus be oxidised by ammonium nitrate and potassium nitrite, antimony is formed. No formula is suggested for antimony, but it is regarded as a compound of oxygen, nitrogen, and phosphorus.

The Pharmaceutical Aviary.



The Symbiosis Bird.

This is the *Pharmaceuticus botanicus* var. *Harvigibsoni*. It derives its name from the fact that it works in association with another species of the genus in a symbiotic manner. Its occupation is well shown by the artist—namely, to put to the chick-birds of the aviary questions about the plants which yield the seeds that they should feed on. It puzzles them greatly sometimes, and the chick-birds are afraid of it because it looks so fierce. It is, however, entirely herbivorous, and says (with a twinkle in its eye) that its symbiotic companion does all the plucking of the chick-birds. Habitat, the banks of the Mersey, near Liverpool, with quarterly migrations to Bloomsbury. Food, Scotch oats and "the like."

Pharmacists wishing to take their degree of doctor in Belgium must attend a course of natural science extending for a year upon passing the State examination.

Observations and Reflections.

By Xrayser.

Pharmacists Received by the President of the French Republic! This is surely the high-water mark of our social history. M. Loubet does not rank, I suppose, in the estimation of heralds' colleges with Bourbons or Hohenzollerns, but he is well on that way, and he is at all events far ahead of a Lord Mayor, and we London pharmacists felt that even that functionary was too high for us to approach when the B.P.C. met here last month. When the Doge of Genoa had visited Louis XIV., and was asked what pleased him most at Versailles, he replied, "To find myself there." This, I should think, was how the pharmacists felt at the Elysée. Allow me to assure them that I cordially envy them. But there was one fly in their ointment. From the report of the International Medical Congress I learn that M. Loubet invited the Presidents of Sections of that assembly and the official foreign delegates to a State banquet. "The laurels of Miltiades have destroyed my sleep," said Themistocles after the battle of Marathon. And so the distinction made between the representatives of pharmacy and those of medicine dims the glory of the recollection of that Elysian staircase with the Republican Guards on either hand.

* * * *

Is this to Be the Last of the International Pharmaceutical Congresses? No provision seems to have been made for another, nor, as far as appears from the reports, for any permanent "bureau" to make arrangements. It will be a pity if the idea of such international association among pharmacists dies away altogether. The ostensible reasons for holding these congresses have been thin enough, it is true, and the one plausible purpose which has been paraded through the whole series, the International Pharmacopœia, is perhaps about worn out. But there are solid advantages besides these in meeting and getting acquainted with colleagues in other lands, and it will be a real deprivation to the next generation of pharmacists if these opportunities are never to be open to them. Just at the time, too, when a modern foreign language is to be one of their preliminary acquirements. Great Britain, it must be added, has treated these congresses rather cavalierly. This has been particularly the case with the last. Messrs. Atkins and Martindale were, I think, nominated by the Pharmaceutical Society of Great Britain as delegates to this Congress, and I believe the Pharmaceutical Society of Ireland also accepted the invitation from Paris in a similar way. No one of the official delegates appeared at the Congress, nor, so far as I know, sent any sort of apology. [Mr. Newsholme appears to have telegraphed to the President of the Congress that it was impossible for him to be present.—Ed.] Neglect of this kind is appreciated on the Continent, and is naturally mortifying to those who have gone to a good deal of trouble in making preparations for visitors.

* * * *

The One Drawback to the perfect happiness of the grocer seems to be the law which prevents him from selling poisons as freely as plums. He cannot care much for the mere trifle of profit which such sales could bring him, and if there were no law of the kind it is almost certain that he would have no desire at all to bring strychnine into such close association with sugar. Now that he is called upon to part with another pet lamb, the gentle carbolic fiend, his wounded affections find expression in unjust and discourteous allusions to the "smart practice of chemists" who have "roped in" another piece of "common ground," I am a little surprised that the Editor of the *Grocer* should have seen fit to play to his gallery by such misrepresentations as this. He knows better, and would have won more respect from the better men of his own constituency if he had told the disgruntled ones that it is not good for them or for the public that poisons should pass through their hands. A test of his sincerity would be to ask him to lead an agitation for the repeal of the Pharmacy Act altogether. He cannot show a good reason for allowing grocers to sell one poison and not others, and, perhaps, he would shrink from the responsibility of encouraging the consumption of arsenic by offering 1 oz. of it with every ½ lb. of tea.

* * * *

But this Grocery Wail should remind chemists that the scheduling of carbolic acid throws on them a duty to supply the public with this substance in all such combinations as may be required, and at reasonable prices. The gentlemanly pharmacist who objects to the "stinking stuff," and the greedy druggist who thinks there will now be a chance of making an extra profit on the article, are both acting against the interests of the trade at large. There is a large and legitimate demand for carbolic compounds for various purposes which never ought to have been neglected by chemists and druggists, but which they have made no attempt to meet. The addition of the poison to the schedule forces on them another opportunity, and, if it is discreetly used, the exemption so ingeniously devised by the Privy Council need have but very little effect. What is necessary is to get the public to understand that, for carbolic acid and its compounds the chemist is the person to go to, and to satisfy them that these substances can be bought from him as cheaply as they were formerly got from the oil-shop.

* * * *

The "U.S. Pharmacopœia Convention," reported last week to have been incorporated at Washington, is suggestive. Pharmacists in this country have done all the work of the B.P., and seem disposed to do it in the future still more thoroughly. For all they do they will get, perhaps, a vote of thanks. Why should they not incorporate themselves and prepare a Pharmacopœia of their own, leaving the General Medical Council to produce its own in whatever fashion it pleases? The latter would be the official volume, no doubt, authorised by Act of Parliament; and it would have about as much chance in competition with ours as the *London Gazette* has against the *Times*. It might be that under such circumstances the G.M.C. might see fit to invite our co-operation a little more urgently than it has done hitherto, and we should give it—on terms.

* * * *

Scotch Affairs are not likely to lose piquancy in Mr. James Reid's hands. I do not understand why Bloomsbury seems just now so bent on demonstrating to its northern supporters the humble position it holds in the pharmaceutical hierarchy, the impotence of its "Executive," and the farce of its annual meeting. But, *en revanche*, Scotland has not manipulated its national thistle cleverly of late. Misrepresentations of the Secretary's letters, and unfounded insinuations against his good faith, damage whatever case the Scotch pharmacists may have. In any new arrangement of rights and duties, I certainly think Scotland might insist on a little more independence than it at present enjoys. Scotland ought to have the election of its own representatives on the Council, in fair proportion, in its own hands, and the Executive ought to have something to execute. The direct representation of Scotland need not involve territorial representation in England, for which there seems to be no good reason.

* * * *

If the Sandbach Coroner who threatened to report the conduct of a chemist to the Pharmaceutical Society should carry out his intention, I hope his communication will have most careful attention. Judging from the report, the Coroner's principal, if not only, reason for dissatisfaction with the chemist's evidence was due to his own ignorance of the Pharmacy Act. If that should be found to be the case, it is to be hoped that a reply to his complaint will be sent to him and will be published, so as to teach him to be a little more careful in future before publicly expressing his dissatisfaction with a chemist who has to give evidence in his court.

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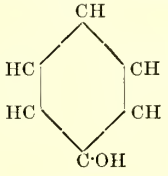
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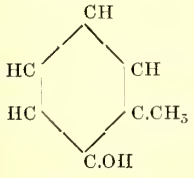
THE expression which occurs in the recent order confirming the addition of "liquid preparations of carbolic acid and its homologues" to the schedule of poisons is not as clearly

expressed as one would wish. As is well known, the Council of the Pharmaceutical Society were so eager to pass the resolution suggested by the Privy Council, and were so sharply spurred on by the President, that there was no time to argue out the meaning of any of the expressions contained in the ready-made resolution. What are the homologues of carbolic acid, and how many of the homologues are included in the resolution? is a question which has been propounded to us several times within the last few weeks by chemists and manufacturers.

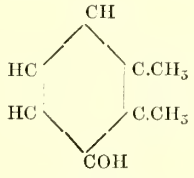
Most text-books on organic chemistry will tell us that "a series of hydrocarbons differing from each other by a constant quantity, such as CH_2, or some multiple of CH_2, and which at the same time resemble each other closely in their chemical behaviour, are termed homologues." Now phenol or carbolic acid has the constitution—



The usual homologues of phenol are those in which substitution by the methyl or homologous radicles has taken place in the ring, *e.g.*—

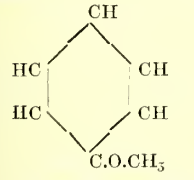


ortho-eresol.

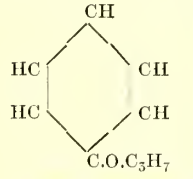


1 : 2 : 3, xylenol.

But the alkyl ethers of phenol or of ring-substituted homologues of phenol are also homologues of phenol; for example, we have

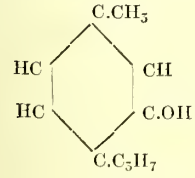


Phenol methyl ether.

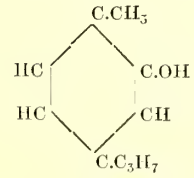


Phenol propyl ether.

The former group of bodies, however, are those which would be generally understood by homologues of phenol, and two of the most typical of these are the well-known bodies thymol and carvacrol, which have the following constitutions :—



Thymol.



Carvacrol.

They are isomeric forms of methyl-isopropyl phenol—typical and well defined homologues of ordinary phenol. From this it follows, as pointed out in our correspondence columns, that oils of thyme and origanum (liquid preparations of carbolic-acid homologues containing more than 3per cent. of such) are now poisons within the meaning of the Pharmacy Act. It may be urged that this is a *reductio ad absurdum*, but when we remember that the official view is that vinum ipecacuanhæ is a poison which comes within the first part of Schedule A we are bound to give it credence.

The intention, however, probably was to exclude the sale, by unqualified persons of carbolic acid and its homologues, cresol, and xylenol. Cresylic acid, the chief constituent of commercial liquid carbolic acid, consists mainly of the three isomeric cresols (ortho-, meta-, and para-), and, possibly, some of the six xylenols. The xylenols are present in considerable quantities in blast-furnace tar, from which a good quantity of disinfecting liquids is produced.

The question has arisen as to whether the "non-poisonous" disinfectants and sheep-dips made with coal-tar creosote, or heavy oils are now within the poison-schedule. This is a point for the makers to inform retailers, as it is possible to keep the percentage of carbolic acid and its homologues at or below 3 per cent., and so avoid making the articles legal poisons. In view of the interest taken in the matter, we may be excused if we give a few notes as to the source of a good many of the popular disinfectants In the distillation of coal-tar the fractions may be classed as follows :—

1. First runnings, up to 110° C.
2. Light oils, 110° to 210°.
3. Carbolic oils, 210° to 240°.
4. Heavy or creosote oils, 240° to 270°.
5. Anthracene oils, 270° to 400°.

Three and four, the fractions which most concern us, form from 16 to 20 per cent. of the tar. The carbolic-oils fraction contains the greater part of the carbolic acid, but the creosote-oils fraction is very largely used for disinfecting-purposes. At least thirty million gallons of this distillate is used annually, the greater part for creosoting timber and the rest for fuel, light, making lampblack, and as an antiseptic. It is a complex body, containing many hydrocarbons and various phenoloid bodies. The most important of these phenoloid bodies are carbolic and cresylic acid, which in "London creosote" average from 4 to 7 per cent., but the quantity sometimes reaches 16 per cent. in "country-made" creosote. Creosote oils do not mix with water, and it was not until the idea of emulsifying them with resin-soap was thought of that they became used for disinfecting-fluids and sheep-dips. When emulsified a liquid is produced that mixes at once with water to form a milky fluid. As some of the proprietary disinfectants contain as much as 60 per cent. of creosote oils, it follows that unless a product containing a minimum of carbolic acid and its homologues is used, the resulting disinfectant may exceed the 3-per-cent. limit and become a poison. It should be added that some samples of "blast-furnace creosote oil" contain as little as 1 per cent. of phenoloid bodies.

Creosote distilled from wood-tar is a complex mixture of phenoloid bodies, and contains the monohydric phenols, carbolic acid, paracresol, and xylenol, in addition to methylic ethers of di- and tri-hydric phenols. When sold retail creosote and creosote-capsules will apparently require a poison-label after September 1, and may only be sold by registered chemists.

The Companies Act, 1900.

Though contemptuously deprived of its pharmaceutical and medical ornaments, the Companies Act of 1900 is a measure of great importance, and one which is likely to have far-reaching effects. It may overreach itself, and seriously hamper the development of legitimate business through joint-stock and limited-liability enterprise; but what is more likely to happen is that its benevolent intentions will be largely neutralised by the ingenuity of the threatened promoters and exorbitant vendors.

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It will be seen in the course of these remarks that, in some respects, companies formed to practise pharmacy, especially those family affairs which have been created with the express purpose of dodging the Pharmacy Act, will find their paths a little more rocky than they are at present.

The stroke of genius which renders this statute particularly honourable among the six or eight Acts of Parliament passed since 1832 which together constitute company-law is to be found in Section 4. This requires the promoters of any new company, shares of which are offered to the public, to decide on a minimum subscription, and forbids them to go to allotment unless the stipulated amount is reached. A minimum is either to be specified in the articles of association and in the prospectus, or, if this is not done, the full nominal capital is to be deemed the minimum. The value of this provision may be well illustrated by a company whose history will be well within the memory of chemists. The Chemists' Co-operative Society (Limited) was floated with a nominal capital of 200,000 guineas, and went to allotment on a subscription of 16,000*l.*, although the company took over contracts to the amount of 122,500*l.* Of course, the result was a disastrous failure, and though in this case the subscribing shareholders had the option of having their money returned to them, somebody lost heavily. The law will now make such reckless fooling with utterly insufficient capital impossible.

The new Act insists as far as is possible on every director exercising such intelligence as he may possess. He is to give his written authority to act as a director, and must also in writing recognise his liability to pay for the shares, if any, which by the articles of association qualify him for his position; and he becomes personally liable to allottees and to the company for contraventions of the specified conditions laid down in the statute.

An important part of the new Act relates to prospectuses. These in future will be very formidable documents. Directors and promoters are at present responsible for actually false statements which may appear in a prospectus, but the clever promoter is not much inconvenienced by that interpretation of the law. He is a very unskilful artist if he cannot avoid definite misrepresentations. The *suggestio falsi* and the *suppressio veri* are still open to him, and give him unbounded opportunities. Hitherto the law has only stipulated one thing which the prospectus shall contain: it is to set forth the contracts which the company is to take over. But this requirement was so carelessly expressed in the 1867 Act that it has been little more than a dead letter The section enacting it called upon promoters and vendors to declare not only all the contracts which the company was likely to take over (itself a practical impossibility in cases where going businesses were taken over), but it also stipulated that all contracts entered into by the persons named, whether the company was to take them over or not, were to be specified. This, of course, was essentially absurd, and has had to be limited in its application by judges. But the general way out of the difficulty has been to simply state that applicants for shares were to waive their rights in this respect. The new Act defines what sort of contracts are to be specified in the prospectus, adds a number of other secrets which are likewise to be disclosed, including promoters' and underwriters' profits, the interest in the promotion which any director may have, an estimate of the preliminary expenses, and the sum which is to be paid for the goodwill; and it also provides that any waiver clause as regards any of these conditions shall be void. It will be interesting to see how the professional company-mongers will meet these stringent stipulations.

The majority of the companies formed to carry on the business of chemists and druggists will not be affected by the sections just dealt with. They do not invite outside capital, and therefore do not issue prospectuses. But they are not quite left alone. Every new company limited by shares and registered after January 1 next will be required before commencing business to furnish to its members and to file with the Registrar a statement detailing the number of shares allotted, the cash received for them, an abstract of the receipts and payments of the company on capital account to date, and a statement of the preliminary expenses incurred, the names and addresses of directors, auditors (if any), manager (if any), and secretary of the company, and other particulars.

The Act makes no attempt to suppress the so-called "one-man" companies, but an attempt is made to remedy the practical fraud on creditors which was perpetrated under the protection of the company laws by the creation of debentures mortgaging the property of the company in preference to the ordinary trade-creditors. Every mortgage or charge created by a company is now to be accurately described and registered, and the register of such mortgages is to be open to inspection on payment of a fee not exceeding one shilling. This provision offers a protection to persons doing business with companies which, if they choose to avail themselves of it, ought to guard them from giving credit to absolutely rotten concerns. So far as it goes it makes transactions with companies potentially safer than with individuals.

In some recent discussions the statement has been made that a company might be carried on without directors, and that thus an enactment in regard to pharmacy companies requiring the directors to be qualified would be frustrated Such a condition could hardly exist under the new Act, the definition section of which declares that "The expression 'director' includes any person occupying the position of a director by whatever name called"; and it is further provided that the new Act shall, except as otherwise expressed, apply to every company whether formed before or after the commencement of this Act.

Whether the new Act will accomplish the purpose of its authors depends largely on whether investors and creditors take advantage of its provisions. In a country like this, overburdened with surplus wealth, the limited-liability principle applied to joint-stock enterprise has been of great service both industrially and financially. It provides, besides, the most promising means of reconciling the diverse interests of capitalists and workers. The Registrar of Joint-stock Companies estimates that there are at present about 28,000 limited-liability companies carrying on business in England and Wales alone, with a paid-up capital of over 1,500,000,000*l.* sterling, and new companies are being formed at the rate of about 4,500 a year. There is every reason to believe that the transfer of commercial enterprise from individuals to corporate bodies will be largely extended within the coming fifty years. There is no chance whatever that the business of chemists and druggists can be fenced off from this invasion, which has indeed already largely succeeded. Hence, therefore, the importance of regulating the condition of company-pharmacy in accordance with the principles of the Pharmacy Act, so far as this may be possible.

Otto-of-rose Prospects.

It is now generally known throughout the trade that the yield of Bulgarian otto of rose this year is the best on record, being estimated in several quarters at 120,000 T. oz., which is about 4,000 kilos. in excess of that of last year,

and even surpassing the 1898 crop, when the output was estimated at 110,000 T. oz. In addition to this must be added 10,000 T. oz. of old otto. The new otto is also said to be of excellent quality, and, as there is plenty of it, it is not expected that adulteration will be practised on so large a scale as formerly. We learn this week that the annual "fixing of the prices" was done by the Bulgarian and Turkish exporters about ten days ago, and although we give the figures for what they are worth they are always understood to be more or less nominal. The prices are 14*s.*, 14*s.* 9*d.*, and 15*s.* 6*d.* per Turkish oz., according to the freezing-point of each individual otto. The quotations for otto on this market have been comparatively low for some time past, and when it became known that this year's production would be considerable prices were reduced in anticipation of the decline. In fact it may be stated that although 1899 was a cheap season, 1900 will be cheaper.

During the short period prices have been fixed we understand that there has been a mild attempt to "corner" the market in Bulgaria, something like 80,000 oz., or about two-thirds of the entire crop, having been purchased by two well-known houses in Kezanlik, which fact has caused quite a sensation throughout the rose-districts. However, there still remains some 40,000 oz. of the new otto, and, according to our Bulgarian correspondent, this is likely to be bought up before the end of the present month. Why the principal buying has been confined to two firms only, is a mystery in Bulgaria, but, as a matter of fact, there are some important developments in the otto-of-rose industry which are likely to be revealed later. At the present juncture the statement is put forward that the heavy buying is due to the fact that such fine otto and such low prices have not been known for thirty years, and that nearly the whole crop has been free from sophistication, the growers having had such an abundance of rose-flowers that precluded the possibility of adulteration. It is reported that the Paris perfumers are taking advantage of the present low prices, and that their purchases will be considerable. Several important London consumers and other buyers are now making contracts for their requirements by private arrangement, and a fairly considerable business has been done this week, though of course there is so far little or no new otto on the spot.

The New German Pharmacopœia.

THE fourth edition of the "Arzneibuch" for the German Empire, which comes into force on January 1, 1901, has been already published, and a superficial glance through its pages proves the great advance made since the last edition, which became official on January 1, 1891.

There can be no doubt that in some directions therapy has made great progress during this decade and it is noteworthy in respect to this progress that the Director of the Governmental Institute for Serums attended the sessions of the Pharmacopœia Committee, and both antidiphtheritic serum and tuberculinum Kochi have been included in the Pharmacopœia.

The inclusion of those articles affords satisfactory evidence that the German pharmacist is still considered the intermediate link between the prescriber and the patient, and that his legitimate calling is in every way upheld by the German Government, even when the apotheker is not in the position to prepare, test, and guarantee the quality and strength of some of the preparations he dispenses, such as the serums.

It is, however, significant, and illustrative of the peculiar changes which pharmacy has undergone, that not only medical authorities and pharmacists are the compilers of the new Pharmacopœia, but members of the German Imperial Health Office and representatives of the Patent Office and of the Prussian War Ministry have also had a voice in the matter, as well as the member of the Serum Institute already mentioned.

The text of the articles treated in the present issue comprises 413 pages, against 342 pages in the last edition; whilst fully another 100 pages are allotted to reagents and volumetric solutions, the maximum doses of the stronger medicaments, the list of preparations not to be sold without prescription, the poison schedule, the atomic weights of the elements in connection with the Pharmacopœia, tables of sp. gr. of liquids at temperatures from +12° C. to +25° C., and indexes of synonyms and official German names of the various medicaments.

The style of the book is the same as in the last edition, the language of the text German, the print large and clear in Gothic characters. Chemical formulæ are entirely absent from the text.

The Pharmacopœia gives as new articles:—

Adeps lanæ anhydricus
Adeps lanæ cum aqua
Æther. pro narcosi
Alcohol absolutus
Arecolinum hydrobromicum
Baryum chloratum
Bismutum subgallicum
Bromoformium
Cautschuc
Coffeïno-natrium salicylicum
Gelatina alba
Hydrargyrum salicylicum
Hydrastininum hydrochloricum
Mel
Methylsulfonalum
Oleum camphoratum forte
Oleum chloroformii
Oleum santali
Pilulæ ferri carbonici Blaudii
Pyrazolonum phenyldimethylicum salicylicum
Semen erucæ
Serum antidiphthericum
Tela depurata
Tuberculinum Kochi
Unguentum adipis lanæ
Vinum chinæ

while the following have been erased:—

Auro-natrium chloratum
Coffeïnum natrio-benzoïcum
Kalium aceticum
Keratinum
Liquor ferri subacetici
Moschus
Pilulæ ferri carbonici
Thallinum sulfuricum
Tinctura ferri acetici ætherea
Tinctura moschi

The individual characters of each article are given on the same lines as in the previous edition, as may be best illustrated by the following example:—

Amylenum hydratum. — Amylenhydrat.

Clear, colourless, volatile, neutral liquid of peculiar ethereal spicy odour and burning taste, soluble in 8 parts water, giving a clear mixture with alcohol, ether, chloroform, petroleum spirit, glycerin, and fatty oils. Sp. gr., 0·815 to 0·820. Boiling-point, 99° C. to 103° C.

Twenty cubic centimetres of the aqueous solution (1 to 20) must not decolorise 2 drops of permanganate solution within ten minutes. The aqueous solution (1 to 20) shall, on warming for ten minutes in the water-bath, not reduce a solution of nitrate of silver, previously mixed with excess of liquid ammonia.

To be stored carefully and away from the action of the light.

Largest single dose, 4·0 grammes.

Largest daily dose, 8·0 grammes.

The direction to store carefully is intended to prevent dispensing except on prescription.

In vegetable drugs a more fundamental change has been made in the text, as it was thought advisable to give a more detailed anatomical description to enable pharmacists to recognise a drug not only by its external appearance in a more or less unbroken state, but also, if possible, when finely divided or in powder form. Where possible tests and methods for the quantitative determination of the active principle of a drug are given, and standardised preparations made in accordance therewith.

The various tests for purity and strength of the chemical preparations are well up to date, and form an interesting commentary on the advances made in the manufacture of

pure chemicals for medicinal purposes, and it is noteworthy that, the era of so-called "synthetical" remedies being exhausted, the compilers of the Pharmacopœia have not laid so much stress on the introduction of new therapeutical agents as on the improvements of the tests of well-established and extensively used drugs.

That the Pharmacopœia authorities have avoided as much as possible the use of registered trade-marks or patented articles is only natural, and thus we have trional masquerading under the name of methylsulfonalum, phenylicum salicylicum substituted for the well-known term salol, and salipyrin described as pyrazolonum phenyl-dimethylicum salicylicum, which is hardly a "popular" name.

Antidiphtheritic serum and tuberculinum Kochi, which have been previously referred to as novel features, are directed to be obtained from one of the officially licensed factories, and to have passed the official tests at the Government Institute for Experimental Therapy in Frankfort-on-the-Main. The official label and seal borne on the phials are accepted as satisfactory compliance with these directions, and the chemist is not further responsible for the contents.

These few remarks will show that the new German Pharmacopœia represents a vast amount of labour, and that no effort has been spared to make the work as complete as the present standing of pharmaceutical knowledge permits.

Pharmacopœial Recognition of Serums.

At the recent meeting of the American Pharmaceutical Association, held at Richmond, Va., a paper of some interest and of possible future importance was read by Mr. J. W. England on the pharmacopœial recognition of diphtheria-antitoxin. The bulk of the paper is devoted to a useful account of the theoretical aspect of serumtherapy, and to the description of the preparation of this special antitoxin. In describing the testing and the standardisation of the finished product the author points out that the results are of great accuracy. The standardisation is expressed in immunisation units. This unit is ten times the quantity of serum that is necessary to save from death a 300-gramme guinea-pig that has received ten times its minimum fatal dose of diphtheria-toxin (determined by a series of experiments upon average animals per gramme of body-weight). The author points out that special care should be exercised in preserving the serum. It should not be kept upon the upper shelves of a room, where there may be excessive heat and gaseous fumes. A dust-proof drawer about equidistant from floor and ceiling is, in his opinion, the best place for storage. The importance of this serum is emphasised by the statements of Jacobi. He has said: "The principal question to be raised in reference to any modifications in cases of serious disease is its life-saving power." Measured by this standard there is now absolutely no doubt as to the life-saving power of diphtheria-antitoxin, and great as has been the reduction in mortality by its use (from about 40 per cent. to 18 per cent., and this with only about 60 per cent. of the diphtheria cases being treated with antitoxin), the reduction can be made still greater in the future when its use becomes more general and the importance of early treatment becomes more generally recognised. American manufacturers have agreed to follow a definite standard of strength, and the author considers the time ripe for the question as to whether the Pharmacopœia should officially recognise the serum and frame official tests. The point adverse to this which will naturally be brought forward is that the Pharmacopœial Convention held in Washington recently directed the Revision Committee, *inter alia*, that "physiological strength should not be introduced by the committee." How far this resolution is intended to refer to vegetable preparations only is a matter of doubt, but in the discussion which followed the paper a motion was, after much debate, passed that "a committee be appointed to confer with the manufacturers and bacteriologists and therapeutists with the view of ascertaining the feasibility of introducing antitoxin-serum into the United States Pharmacopœia." If such a step were taken—and it would undoubtedly be a bold one—the very greatest care would have to be exercised in dealing with organo-therapeutic remedies in this way, for there are very few which can be said to have established a sound claim to be regarded as indispensable. Testing serum with live guinea-pigs, too, is hardly likely to be ever allowed in this country, except in the hands of licensed persons.

WELL-WON AWARDS.

Although no exhaustive attempt was made by Great Britain to exhibit her commercial supremacy to the world at the Paris Exhibition, she has been by no means behindhand in the matter of awards. In the chemical industry section this is particularly the case, six Grand Prizes and nine gold medals, besides numerous silver and bronze medals and diplomas of honour, being her portion in chemistry and pharmacy, and two Grand Prizes and a like number of gold medals in the perfumery section. We cordially congratulate the firms by whose liberal efforts, so justly recognised, Great Britain has been enabled to show the world that her premier position as a manufacturing country is still maintained.

THE NEW BY-LAWS.

The by-laws approved at a general meeting of the Pharmaceutical Society on August 1 are waiting confirmation at the Privy Council office. In the meantime a petition, which we give on page 344 is being extensively signed in Scotland against the new by-laws. Great objection is taken to the omission of the regulation by which only a fee of a shilling was charged to such candidates as failed to attend, owing to illness an examination for which they had paid the fees. To make a candidate pay another guinea because he is stricken down with an illness on, say, the eve of the examination is an unnecessary cruelty which surely the Lords of the Privy Council will hesitate to sanction when its unfairness is pointed out to them. The production of a medical certificate should be sufficient evidence that a candidate is not malingering, and the number of persons unable to go in for the examinations through illness is so trifling that no inconvenience can possibly result to the examiners. The reasons urged against the sanctioning of the by-laws are stated at length in the petition; briefly put, they are that there is no adequate reason why the shilling fee should be abolished, that it presses hardly on candidates, and that it is contrary to the practice of other examining bodies in Scotland and England. These reasons advanced seem to apply just as well to England and Wales as they do to Scotland, so that if any persons south of the Tweed connected with pharmacy wish to express their disapproval of the by-laws as submitted now is the time to address the Privy Council on the matter.

CARBOLIC-ACID SCHEDULING.

The Pharmaceutical Society are sending a circular letter to all chemists on the register calling attention to the addition of carbolic acid to the poison-schedule. The following note is added at the end of the circular:—

Important Notice

Liquid preparations, which are poisons within the meaning of the above-mentioned Privy Council Order can only be sold by retail by registered persons, and every vessel containing such preparation must be distinctly labelled:—

1. With the name of the article.

2. With the word "Poison."
3. With the name and address of seller.

N.B.—All liniments, embrocations, and lotions containing a poison must be sent out in bottles rendered distinguishable by touch from ordinary bottles, and must bear a notification that the contents are not to be taken internally.

This is added to appease the "Lords of the Council," who in their July letter asked for "an assurance that the regulations of the Society for the keeping, dispensing, &c., of poisons . . are being carried into effect."

ATOMIC WEIGHTS COMMISSION.

At the end of 1897 the Council of the German Chemical Society appointed a committee to examine the question of atomic weights, with a view of attaining uniformity. The committee, reporting a year after, recommended that oxygen = 16 should be taken as the basis for atomic weights in place of H = 1, and suggested that an international agreement was desirable. An international commission was then formed, England being represented represented by Sir Wm. Crookes, Drs. Scott and Russell, and Professors Thorpe, Tilden, Dunstan, Meldola, and Dewar. The majority of the commissioners in favour of O = 16 was found to be very great, but the Germans were about equally divided, because six of them—Bredt, Erdmann, Fischer, Volhard, Winkler, and Wislicenus—state this week in the *Chemical News* that they have come to the conclusion that no unanimity can be reached, and that, if it is necessary to make an alteration in the standard for atomic weights, it would be better to start with an element whose weight can be conveniently ascertained, such as silver or iodine. These chemists also state that the ratio of hydrogen to oxygen has been already established with an exactness which suffices for all practical purposes, and that the time for an unchangeable table of atomic weights has not arrived. Dalton first suggested hydrogen as the unit, but Berzelius favoured oxygen, and since then investigators have been endeavouring to establish the ratio between O and H. Many of the atomic-weight tables in use are based on O = 15·96, as the result of Meyer and Seubert's work in 1883. Latterly the ratio, carefully redetermined, has been put at 1 : 15·879, whilst hydrogen is taken as the standard. Changes in the ratio of O and H necessitate a recalculation of all the atomic weights, but there is comfort in the thought that recent work may not be supplanted for many years to come.

BOTANICAL TERMS.

A criticism of the complicated terms used in botany—a bugbear to the young student, but a joy to the accomplished botanist—was the subject of a paper by Dr. W. Bryan before a recent meeting of the New York State Pharmaceutical Association. Dr. Bryan proposed to simplify matters by discarding accepted rules of pronunciation, doing away with scientific terminology and using "common" language. In an article in the *American Druggist* Prof. H. H. Rusby, of the New York College of Pharmacy, treats Dr. Bryan's suggestions with fine scorn. Selecting twenty out of the thirty-two "equivalents" for recognised botanical terms proposed by the critic, Prof. Rusby points out their weaknesses. The following is an example :—

An acaulescent plant is not a "stemless" plant, nor is it likely that the term has ever been applied to a plant without a stem, notwithstanding that there are many such in existence. It is applied to plants whose stems are so poorly developed as not to be conspicuous. Now, it is very easy to define acaulescent as being "destitute of a conspicuous stem." The word thus becomes of precise scientific meaning. We cannot, however, limit the word "stemless" to any such a technical idea, because its meaning had already become fixed in the English language before there was any recognition of acaulescent plants. The use of the word "stemless," therefore, would be misleading in almost if not every case where the term "acaulescent" is in use. This case is thus carefully discussed for the reason that it represents the inherent difficulty of all similar cases.

In like manner he asserts that "cloakless" in botanical description would be ludicrous in its vacuity, and that æstivation is very far from meaning "bud-arrangement,' which could only be "Englished" by "floral-part-arrangement-in-the-bud." The other examples given certainly appear to show that the present system of botanical nomenclature has something in its favour.

MUNICIPAL MILK.

Eight months ago the St. Helens Corporation decided to start a depôt for the supply of sterilised humanised milk for the use of the infants in St. Helens. Dr. F. D. Harris, the medical officer of health, read a paper before the British Medical Association, in which he showed that already there had been a considerable saving of infant life, which will show more strikingly when the death-rates of longer periods are compared. The installation cost 235*l.* 2*s.* 5*d.*, and the expenses for the eight months have been 264*l.* 11*s.* 1*d.*, whilst 187*l.* has accrued in income from the sale of the milk. A charge of 2*d.* is made for a day's supply of the milk. The milk as received at the depôt is roughly tested to ascertain its percentage of cream, between 9 and 10 per cent. being regarded as the best amount. It is then diluted by one-third of its bulk to reduce the proportion of proteids. Cream and sugar are next added in the proportion of 2 oz. each per gal. of the mixture, and a small quantity of salt is put in. The humanised milk is then filled into bottles, which are stoppered and placed in the steriliser. The steriliser is a cylindrical vessel of five compartments separated by perforated zinc plates. At the bottom is a boiler capable of holding about 8 gals. of water. On the water being heated the steam passes through the compartments, and thence out by a small pipe which is immersed in a bucket of water for about 4 inches to obtain a slight pressure. When a thermometer at the top of the apparatus reaches 102° C. the time is noted, and that temperature maintained for three-quarters of an hour, the whole operation taking from three to three and a half hours. The quantity of milk is adjusted according to the age of the child, and the progress of the children is noted by weighing them weekly. The bottles in which the milk is sent out are used as feeding-bottles, a teat being fitted over the neck, the said teat being periodically examined at the depôt to see that it is kept clean. The infant mortality at St. Helens has averaged 176 per 1,000 for 1891–8, and dropped in 1899 to 157 per 1,000, so that even for the short time the scheme has been working it has been instrumental in saving about sixty infant lives.

A MEDICAL OPINION.

The *British Medical Journal*, reviewing Dr. Attfield's "Report for 1898 on the progress of pharmacy in its relation to the future revision of the British Pharmacopœia of 1898," says :—

On the whole it is conclusively shown by the tone of the criticisms and suggestions that our present Pharmacopœia has been carefully arranged and compiled, and is well abreast of the times. That it is perfect or incapable of being improved upon has never been maintained, but a perusal of the Editor's present report leads to the conclusion that many of the proposed changes are not necessarily improvements, and that some of them at least have not been carefully thought out by their authors. A few of the suggested changes are not practicable in the present state of our knowledge. All these points have been duly noted and commented on by Dr. Attfield. It is worthy of note that the suggested alterations have come almost entirely from pharmacists, and are often of a highly technical pharmaceutical character or deal with minute practical points only. The nomenclature and the chemistry and botany of the volume have also been subjected to a good deal of criticism, but mostly of a trifling kind, and sometimes involving a mere matter of opinion.

The many pharmacists who have devoted their time and knowledge to pointing out desirable improvements in the Pharmacopœia will hardly appreciate such offhand references to their work.

Pharmaceutical Chemistry of the New German Pharmacopœia.

By H. Helbing, F.C.S., and F. W. Passmore, Ph.D.

I.

THE perusal of the new edition of the German Pharmacopœia, which comes into force on January 1, 1901, reveals a number of features interesting to the English chemist, and we believe in the following notes there will be found several points worthy the attention of the English pharmacopœial authorities.

Acetanilidum.—In view of Dr. F. B. Power's recent criticism of the ferric-chloride tests of the B.P., and our own remarks in May, 1895, it is noteworthy that in the new German text the test is formulated as follows:—"Dilute ferric-chloride solution does not change colour on addition of a cold saturated aqueous solution of acetanilide." Applied in this way it not only affords a ready means of distinguishing antifebrin from antipyrin, but also demonstrates the freedom of the former from other anilin compounds. The isonitrile reaction is given as an identification test, and is supplemented by the indophenol reaction (indigo-blue colour with carbolic acid and chloride of lime).

Acidum Benzoicum.—The German Pharmacopœia still continues only to recognise the acid sublimed from benzoin, and 0·1 gramme of the acid dissolved in 1 c.c. ammonia and precipitated by 2 c.c. dilute sulphuric acid shall almost completely decolorise 5 c.c. permanganate solution within four hours.

Acidum Camphoricum.—"Colourless and odourless crystalline leaflets, soluble in 8 parts boiling and in about 150 parts cold water, easily soluble in alcohol and ether, less readily in chloroform. The solutions redden blue-litmus paper. Melting-point 186° C." This new pharmacopœial article shall also be free from chlorides, sulphates, and nitrates, volatilise completely on strong heating, and 1 gramme dried camphoric acid neutralise 10 c.c. normal potash solution.

Acidum Carbolicum.—The physical characters are given as colourless volatile crystals melting between 40° and 42° C. and boiling between 178° and 182° C. Beyond these physical characters no tests are given which exclude cresols. It is interesting to note that the maximum single dose to be taken internally with safety by adults is given as 0·1 gramme (1½ gr.) or 0·3 gramme (5 gr.) within twenty-four hours.

Acidum Citricum.—With reference to the B.P. lead-test Professor Attfield, in his Pharmacopœial Report for 1898, states that the Medical Council has ordered the word "nearly" to be read before the word "neutralised" on line 21, page 10. The German work states that the solution "neutralised with ammonia until only of slightly acid reaction" should not be affected by sulphuretted-hydrogen solution, which is equivalent to the modified English test.

Acidum Hydrobromicum of the German Pharmacopœia is directed to contain 25 parts hydrobromic acid in 100 parts, and to have the sp. gr. of 1·208. Acidum hydrochloricum, acidum phosphoricum, and acidum nitricum are also made of uniform strength—namely, 25 parts pure acid in 100 parts.

Acidum Tannicum.—With regard to Dr. Power's assertion of the inaccuracy of the chemical formula in the B.P., showing two molecules of water of crystallisation, it is worthy of note that the German authorities, whilst avoiding chemical formulæ, have inserted as a new test that "100 parts tannic acid shall, on drying at 100° C., lose not more than 12 parts in weight," which would correspond to a loss of slightly more than two molecules of water.

Acidum Tartaricum.—The same remarks apply as under acidum citricum.

Adeps Lanæ Anhydricus.—The standard melting-point of the German Pharmacopœia is given as "about 40° C." The limit of permissible acidity is only half that of the B.P.—"2 grammes wool-fat dissolved in 10 c.c. ether shall remain colourless on addition of 2 drops of phenolphthalein-solution, and redden on addition of 0·1 c.c. decinormal potash-solution." Greater stress is also laid on the absence of extraneous animal matter, as the following test indicates:—

If 10 grammes wool-fat are melted with 50 grammes water the water-bath and constantly stirred, a dull pale yellow fatty layer, free from water, shall separate on cooling above a clear aqueous layer. The latter shall have a neutral reaction, and on heating with lime-water the escaping gases shall not turn red-litmus paper blue; 10 c.c. of the previously-filtered aqueous liquid shall be permanently reddened by two drops of potassium-permanganate solution.

Adeps Lanæ cum Aqua only contains 25 parts of water in 100 parts.

Adeps Suillus is described as "melting between 36° and 42° C. to a clear liquid, which is colourless when viewed in a layer 1 centimetre thick." The lower melting-point would appear from Professor Attfield's notes to include most American lard; but the German Pharmacopœia has adopted the Hübl iodine-absorption test to detect sophistication with foreign fats, such as cottonseed oil. Under the conditions given "100 parts of lard absorb not less than 46 nor more than 66 parts of iodine," which limits are approximately those given by Allen. The limit of acidity is the same as in the B.P.

Aether.—The article described in the German Pharmacopœia under this head corresponds to the æther. purificatus of the B.P. Sp. gr., 0·720; boiling-point, 35° C.

Aether pro Narcosi is a new addition worthy of consideration. In physical characters it is identical with the preceding article, but the tests for purity are considerably sharpened, as will be seen from the following comparison:—

Aether.	Aether pro Narcosi.
If 5 c.c. is allowed to evaporate in a glass dish at ordinary temperature, there remains a moist deposit which shall not redden blue-litmus paper.	If 20 c.c. is allowed to evaporate in a glass dish at ordinary temperature, there remains a moist deposit, which shall neither bleach nor redden blue-litmus paper.
Potassium hydroxide broken in pieces the size of a pea, and immediately covered with ether in a closed flask protected from light, shall not develop a yellow colour within *half an hour*.	Potassium hydroxide broken in pieces the size of a pea and immediately covered with ether in a closed flask protected from light, shall not develop a yellow colour within *six* hours.
10 c.c. ether, frequently shaken with 1 c.c. potassium-iodide solution in a completely filled, glass-stoppered bottle, and protected from light, shall not colour within *one* hour.	10 c.c. ether, frequently shaken with 1 c.c. potassium-iodide solution in a completely-filled, glass-stoppered bottle, and protected from light, shall not colour within *three* hours.

Alcohol Absolutus.—Boiling-point, 78·5° C.; sp. gr., 0·793 to 0·800; 100 parts contain 99·7 to 99·4 parts by volume, or 99·6 to 99·0 parts by weight, of alcohol.

Aloes.—The reference to the particular species mentioned in the old text is now abandoned, but the official German drug is still to be "the evaporated juice of the leaves of *African* species of aloe," and it is further provided that a faint greenish, and not a red, coloration should be given with nitric acid within three minutes, which indicates that Cape aloes is required, and Socotrine aloes is excluded.

Alumen.—Only potassium alum is admitted, a distinctive test being given to exclude ammonium alum.

Ammoniacum.—The German Pharmacopœia Commission has adopted Dieterich's modification of the umbelliferone test, which consists in treating the gum-resin with strong hydrochloric acid, instead of breaking up the umbelliferone compound by merely heating in a dry test-tube. "If 5 grammes finely-powdered ammoniacum is boiled for a quarter of an hour with 15 grammes fuming hydrochloric acid, filtered, and the clear filtrate carefully supersaturates with ammonia, the mixture shall not exhibit a blue fluorescence by reflected light." It is further required that the gum-resin shall not leave more than 40-per-cent. residue after extraction with boiling alcohol and drying at 100° C., nor more than 5 per cent. ash on incineration.

Amylium Nitrosum.—The amyl nitrite of the German Pharmacopœia possesses the same sp. gr. as the B.P.—namely, 0·870 to 0·880—but the boiling-point is given definitely as 97° to 99° C., which is a much more scientific expression of a distinctive physical feature than the cumbrous statement in the B.P. text already criticised.

Amylum Tritici. — The German Pharmacopœia only

recognises the starch of *Triticum vulgare*, which shall not leave more than 1 per cent. residue on incineration.

Aquæ Destillatæ.—The aromatic waters of the new German Pharmacopœia are directed to be prepared by distillation of the previously moistened drug in a current of steam until a certain quantity of distillate has been condensed. Although this is the practice which has prevailed in German pharmacies and amongst manufacturers for many years, it is now for the first time officially prescribed.

Aqua Amygdalarum Amarum is standardised to the same strength of hydrocyanic acid as aq. laurocerasi of the B.P., and may be dispensed when aq. laurocerasi is prescribed. The German preparation is, however, alcoholic, the aqueous distillate being diluted with spirit of wine in the proportion of 3 to 1, and, if necessary, after determination of the percentage of prussic acid, further dilution is made with a mixture of water and spirit of wine in the same proportions. The resulting product has a sp. gr. of 0·970 to 0·980. An anomaly which exists in the B.P. directions may here be recalled. After directing aq. laurocerasi to be distilled from cherry-laurel leaves, it is ordered, if the preparation be below strength, that it shall be brought up to full strength by the addition of prussic acid not made from cherry-laurel leaves.

Aqua Cresolica consists in a mixture of 1 part cresol-soap solution (which is a clear yellowish-brown liquid prepared by melting together equal parts of potash soap and cresylic acid) with 9 parts of water. Distilled water is to be used if the preparation is intended for surgical purposes, and should give a clear solution; for disinfectant purposes ordinary water may be used, which causes turbidity without separation of oily drops.

Arecolinum Hydrobromicum, a new addition to the official drugs, is described as a preparation consisting of fine white needles, unaltered by air, and identified by the melting-point —167° C.

Asafœtida.—The gum-resin shall give not more than 50 per cent. residue when extracted with boiling alcohol and dried at 100° C., and not more than 10 per cent. on incineration.

Atropinum Sulfuricum.—The German authorities have lowered the melting-point of this salt from 183° C. in the last edition to 180° C., and seems to indicate that the German Pharmacopœia Commissioners have, after giving this matter careful consideration, arrived at an agreement with Hesse's figure. The salt is to be prepared from a base melting at 115·5° C.

Business Changes.

Notices are inserted free in this section if properly authenticated.

Mr. Frederick Price, chemist and druggist, formerly of Whitechapel, Liverpool, will shortly open a new business at Grange Road, Birkenhead.

Messrs. Hedges, chemists and druggists, Birmingham, have opened a new shop in Soho Road, Handsworth, under the managership of Mr. T. H. Thomas.

Messrs. S. R. Atkins & Son, pharmaceutical chemists, Market Place, Salisbury, are having their pharmacy entirely refitted by Messrs. S. Maw, Son & Thompson, Aldersgate Street, E.C.

Mr. R. G. Smith, chemist and druggist, of 5 Earle Road, Liverpool, has opened an attractive branch pharmacy at the corner of Egerton Road and Lawrence Road, Liverpool. The fittings are from Mr. Smith's own designs.

The shop in High Street, Chatham, where Mr. W. G. Turtle, chemist and druggist, has conducted his business for some years, is to be pulled down and rebuilt. Mr. Turtle has meanwhile transferred his business to 260 High Street, Chatham.

Bankruptcy Report.

Re Robert Jones, Cavan, Chemist and Druggist.

This debtor, who carried on business as chemist and a thecary in Cavan, was adjudged a bankrupt on July 30.

Legal Reports.

High Court Case.

Lea & Perrins' Trade-mark.

In the Vacation Court on August 22, before Mr. Justice Farwell, Mr. Badcock, Q.C., mentioned the case of in *re* the Trade-mark No. 5 of C. W. Lea & J. D. Perrins, which was an application by the Birmingham Vinegar Brewery Company to remove from the register the trade-mark in question. Counsel said that the matter had stood over from last week with the view of an arrangement being arrived at, and he was happy to say that he had now agreed with his learned friend Mr. Sebastian upon an order in the terms of the notice of motion—viz., for the removal of Lea & Perrins' trade-mark No. 5. He did not ask his Lordship to make any order as to costs.

Sale of Food and Drugs Act.

Lime-water.

At Thames Police Court on August 16, George R Turner, trading as a chemist at 51 St. Leonard's Street, Bromley, was summoned before Mr. Dickinson for selling lime-water from which 26 per cent. of lime had been abstracted. The defendant said he made the lime-water according to the British Pharmacopœia, and he was at an utter loss to account for the diminution. It was the easiest thing made, and there was no legal standard attaching to it. The Magistrate held that there was no evidence that the defendant had abstracted any lime, and dismissed the case.

Messrs. Reece & Co., 168 Piccadilly, W., ask us to state that they are not the defendants in the case of Rendell *v.* Reece & Co., reported in the *C. & D.*, August 18, page 310.

Gazette.

Partnerships Dissolved.

Holland, H. F., and **Phillips, F. A.,** under the style of Holland & Phillips, Ampthill, Bedfordshire, general medical practitioners.

Jeaffreson, J. R., and **Bullock, A. E.,** under the style of Jeaffreson & Bullock, Leamington, surgeons and general medical practitioners.

The Bankruptcy Acts, 1883 and 1890.

Receiving Order.

Booth, Charles Henry, Connaught Mansions, Battersea, S.W., late King's Road, Chelsea, S.W., chemist and druggist.

Adjudication.

Downing, Thomas Henry, Newtown, Montgomeryshire druggist and grocer.

New Companies & Company News.

Sands, Wilson & Co. (Limited).—Capital 50,000*l.*, in 1*l.* shares. Objects: To carry on the business of textile manufacturers, oil and chemical merchants, &c. Remuneration for directors, 100*l.* each per annum, and 100*l.* extra for the chairman.

Hills & Sons (Limited).—Capital 10,000*l.*, in 690 preference shares of 5*l.* each, and 6,550 ordinary shares of 1*l.* each. Objects: To acquire the business carried on by B. Hills as "Hills & Sons," at Regent Street, Deptford, and Woolwich, and to carry on the business of soap manufacturers and merchants, &c. The subscribers are to appoint the first directors. Remuneration as fixed by the company.

Vacuum Soap Patents (Limited). — Capital 10,000*l.*, in 1*l.* shares. Objects: To acquire the business formerly carried on by the late W. Eddington, at Marsh Gate Lane, Stratford, to acquire certain patents from W. F. Haywood, and to carry on the business

of soap manufacturers, glue-makers, oil-merchants, druggists, chemists, &c. The first directors are J. W. Walker, W. F. Haywood, and A. T. Tough. Qualification, 100*l.* Remuneration of J. W. Walker and W. F. Haywood (permanent directors), 300*l.* each per annum. Registered office, Tower Chambers, Moorgate Street, E.C.

Mellin's Food Company for Australia and New Zealand.—The third ordinary meeting of this company was held on August 20 at the offices, 56 Cannon Street, E.C. The directors' report shows a profit of 5,993*l.* 17*s.* 7*d.* for the year, which, after allowing for the expenses of management and for the dividend of 6 per cent. paid on the preference shares, leaves a balance of 890*l.* 8*s.* 2*d.*, which it was resolved to apply in reduction of the advertising expenditure of the past year.

The British Dyewood and Chemical Company (Limited).—The directors' report and balance-sheet, together with the profit and loss account, for the year ending June 30 show that the profits earned during the year have been 32,027*l.*, which the directors recommend shall be dealt with as follows:—To be written off for depreciation, 5,000*l.*; directors' fees, 1,000*l.*; to be carried to reserve fund, 1,000*l.*; in payment of one year's dividend on the preference shares, 17,500*l.*; in payment of a dividend on the ordinary shares at the rate of 3 per cent. per annum, free of income-tax, 5,100*l.*, leaving a balance to be carried forward of 927*l.*

Trade Notes.

Messrs. Bovril (Limited) have been awarded two gold medals at Paris—one for general products and one for emergency rations.

"Soldis" disinfecting-fluid, manufactured by the Sanitas Company (Limited), Letchford's Buildings, Three Colt Lane, Bethnal Green, E., is non-poisonous within the meaning of the Carbolic-scheduling Order.

Sparklet Bottles.—In our issue of August 11, page 263, under "Stores Prices," we quoted the small size "Sparklet" bottle at 5*s.* This should have been "small size with stopper and toggle cork." The ordinary small bottle sells at 4*s.* 6*d.*

The back page of the Coloured Supplement is this week being used by Messrs. T. & H. Smith & Co, Edinburgh and London, to announce the award of a Grand Prix to them at the Paris Exhibition. The diploma was granted for their very fine exhibit of morphine salts and other alkaloids.

Mr. Max Philipon, 7 Savage Gardens, Crutched Friars, E.C., informs our readers, through the medium of our advertisement columns, that the "P. & G." brand of quinine for which he is the agent for the U.K. and Colonies, has been accorded a gold medal at the Paris Exhibition.

The firm of Idris & Co. (Limited), Camden Town, N.W., have secured a gold medal at the Paris Exhibition in Class 62 for excellence in aërated waters. They are to be the more congratulated on the award by reason of the fact that theirs is the only gold medal in this class which was allotted to British exhibits. An announcement of the award is made in another part of this issue.

Messrs. J. & E. Atkinson (Limited), 24 Old Bond Street, W., have reason to be proud of their efforts at the Paris Exhibition. As will be seen from the list of awards published elsewhere in this issue, they have gained the highest possible award in the perfumery section. This is, we believe, the first occasion on which a Grand Prix has been awarded to English perfumery.

Bacteriological Apparatus.—A very complete and well-illustrated price-list of bacteriologieal apparatus reaches us from Messrs. J. J. Griffin & Sons (Limited), 20–26 Sardinia Street, Lincoln's Inn Fields, W.C., which we commend to those pharmacists who use or supply bacteriological material. There is a coloured phototype engraving in the beginning of the catalogue of three test-tube cultivations.

Dummy Harlene.—Edwards' Harlene Company, 95 and 96 High Holborn, W.C., have had made enlarged reproductions of their packed bottles of "Harlene" for use as dummies for counter or window-dressing. The dummies are about 14 inches high, and have an attractive appearance. We understand that large or small quantities, together with show-cards and counter-bills, will be sent carriage free to any chemist in the British Isles applying for them.

Santovin Booklet.—Messrs. Stephen Pettifer & Sons, Crudwell Chemical Establishment, Malmesbury, send us a copy of a booklet, "Health for Sheep," they have produced, telling of the virtues of santovin, a sheep-medicine which they manufacture. Much useful information is given on diseases of sheep which makes it a desirable book for agricultural chemists to distribute. Messrs. Pettifer inform us that they will be pleased to send chemists a supply with name printed on.

Floral Hair-douche.—The Popular Remedies Manufacturing Company, Bombay, forwarded us a sample of their floral hair-douche, which is an excellent example of elegance in style of putting up. It has, we understand, a large sale in India and has been certified by Dr. Bostock Hill, of Birmingham, to be of value as a stimulant of the growth of the hair.

The Pharmacie Centrale de France (Charles Buchet & Co.), 7 Rue de Jouy, Paris, have been awarded the quite exceptional number of three Grand Prix diplomas. They carried off the highest honours in each of the three classes in which they exhibited—class 87 for quinine and other chemical and pharmaceutical products, class 54 for general and botanical drugs, and class 115 for special preparations for export. This well-known French firm have a London ageney at 16 Fenchurch Avenue, E.C., under the management of Mr. Astor Boisselier.

Messrs. Howards & Sons, City Mills, Stratford, E, announce in our advertisement columns that the juries of the Paris Exhibition have awarded them a Grand Prix diploma in class 87 (chemical arts and pharmacy). They have also had the unusual number of five medals conferred on members of their staff as collaborators. Those in the trade who have closely inspected the exhibit of this firm will hardly be surprised to hear of these awards, as the unostentatious black-and-gold decorated case contained, besides an exceptionally fine series of the alkaloids of quinine, many other rare alkaloids and derivatives.

On the Wane.

I. Mutterings.

Our noontide contemplation rudely shaking,
Darkling the clouds that storms precede,
Outspoken words that set us quaking
From Kerr, or Currie, verbose Reid,
Baneful effect on Concentration;
Schemes such as these our minds appal.
Rob us of Red Tape? Consternation!
That were th' unkindest cut of all.
Can it be, then—this subject gives us pain—
Our long-held power is slowly on the wane?

II. Shriekings.

Baulked of our Vain Desire and chafing
Sore at the fruits of our defeat;
Snubbed by the Craft for vulgar raving,
How can we vent our spite complete?
Brilliant suggestion by our Noodle,
Grasp it or it will soon be missed:
Mix flimsy sneers with much flapdoodle,
Sign it "An Oilshop Pharmacist."
Fruitless, alas! we strive and sweat in vain:
Our power (ne'er great) is ever on the wane.

III. Vapourings.

"Let Conference and Congress be abolished."
So saith the Leaflet, lacking wit.
"We'd dearly like to see demolished
Everything excepting Us and It.
So let all Cacklers be disbanded,
All else but Ours is moribund:
We'll take the subs. that they've demanded,
And start a Feeble-Mortals' Fund."
Just Heaven, we ask, an answer to us deign—
Help hapless folks whose power is on the wane.

The Perfume-industry of Algeria.

THE following details are from an interesting pamphlet we have received, by M. Gros, Mayor of Boufarik, dealing with the perfume-industry in Algeria, especially in reference to the exhibits at the Paris Exposition.

The cultivation of the violet was tried some twenty years ago, but, except for flowers themselves, this is not sufficiently successful to be worked. The intense heat and dry summer militate against it. Geraniums (*Pelargonium capitatum* or *roseum*) are cultivated to a considerable extent, chiefly near Algiers, Chérafas, Rovigo, and Boufarik. The yield of oil varies from 0·8 to 1·2 kilo. per 100 kilos. of leaves. Twenty kilos. per hectare is a full yield. Of the *Aurantiaceæ*, essence of neroli is practically the only perfume which can be successfully distilled. South America—Paraguay in particular—has competed with petitgrain oil to such an extent as to seriously injure the South European industry.

Cassie-flowers (*Acacia Farnesiana*) are produced to a small extent—about 40,000 kilos. per annum—and converted into pomade and perfumed oils on the spot. With regard to roses, it is pointed out that, although the climate and soil are admirably suitable for the purpose, the yield is too small to make the cultivation pay. From 6,000 to 7,000 kilos. of oil of *Eucalyptus Globulus* is produced in Algeria annually, the average yield being from 5 to 6 per cent. Several attempts have been made to cultivate jasmin, but they have all been abandoned.

Some 4,000 or 5,000 kilos. of thyme oil is annually produced—but the average value has sunk to one-third of the price which has obtained since the industry started, and the work is scarcely remunerative. The true verbena (*Lippia citriodora*) is easy of cultivation, but the yield of essence is so small that the distillation of the flowers is not pursued.

Personalities.

Mr. J. H. Sugden, Keighley, has been appointed bacteriological chemist to the Corporation of Cardiff.

Professor J. Norman Collie is again touring in the Canadian Rockies. We last heard of him at the Banff Springs Hotel.

Mr. W. E. Stokes, chemist and druggist, High Street, New Brompton, is suffering from a paralytic seizure, affecting the whole of his right side. He has been unconscious for four days, and lies in a critical state.

Mr. C. J. Fox, chemist and druggist, has been presented by the inhabitants of Ramsgate with a gold watch and a purse containing 22*l*. as a mark of their appreciation of Mr. Fox's public service in providing a War-news bureau during the past seven or eight months.

Mr. C. B. Robinson (Messrs. Thomson & Taylor), chemist, of Bombay, is at present in this country on a business-and-pleasure visit combined. Communications sent to him c/o Messrs. J. H. Bower & Co., of 133 Leadenhall Street, will find him up to the middle of September.

It is stated at Penang that application has been made to the Perak Government by British capitalists for a concession in the marble district of Kinta, on which to start works for the manufacture of carbide of calcium.

Mr. Edward F. Smith, of Trenton, N.J., makes things to drink. He uses an envelope for his correspondence which is pretty good. Across the top is this legend: "Return in five days to Edward F. Smith, Trenton, N.J., who bottles the finest beverages on earth." Over the postage-stamp are the words "This stamp ensures delivery," and under it the words "See other side." When you turn the envelope over you find Mr. Smith's trade-mark and the words "This stamp ensures excellence." Arranged so as to be directly underneath the address is set in three lines the information that "Up to the time this was mailed to you no one had produced the equal of Smith's beverages."—*Printers' Ink.*

Marriages.

Cochrane—Neave.—On August 17, at St. Mary's Fordingbridge, by the Rev. W. J. Boys, M.A. vicar, Frank Cochrane, of Sale, Manchester, to Winifred Mary, second daughter of the late Mr. R. Neave (originator of Neave's Food), of Upton House, Fordingbridge.

Dunstan—Hanbury Tracy.—On August 14, at St. Augustine's, Queen's Gate, by the Rev. Canon the Hon. Maurice C. J. Ponsonby, Vicar of Swindon, uncle of the bride, the Rev. R. A. C. Bevan, Rector of Hurstpierpoint, and the Rev. R. R Chope, Wyndham Rowland Dunstan, Director of the Scientific Department of the Imperial Institute, to Violet Mary Claudia, daughter of the Hon. Frederick S. A. Hanbury Tracy.

Fairweather—Hemmings.—At St. Leonards-on-Sea on July 31, James Young Fairweather, chemist and druggist, late of Forfar, N.B., to Ethel, daughter of Mr. Frank Hemmings, St. Leonards-on-Sea.

Williams—Davies.—On August 15, at Grosvenor Park Baptist Church, by Rev. J. Brown Morgan, assisted by Rev. R. Jones, uncle of the bridegroom, David T. Williams, chemist and druggist (with Messrs. Cheers & Hopley, chemists, Chester), to Bessie, second daughter of the late Mr. John Davies, Chester.

Wright—Rose.—At 290 Renfrew Street, Glasgow, on August 18, by the Rev. Norman M. Wright, Ancroft Moor, William Andrew Wright to Elsie MacDonald, elder daughter of the late Alexander Rose, chemist.

Deaths.

Ashton.—On August 8, Mr. Joseph Peter Ashton, cashier at the United Alkali Company's works, St. Helen's. Aged 57.

Briers.—At Winchmore Hill, N., on August 7, Mr. Thomas Briers, chemist and druggist. Aged 79.

Gerred.—On August 17, at Exeter, Mr. Joseph Gerred. Aged 85. Deceased had a local reputation as a "consulting" herbalist.

Griffiths.—On August 5, Mr. John Marriott Griffiths, chemist and druggist, Waltham Abbey.

Riker.—On August 13, Mr. Henry Laurens Riker, of the firm of J. L. & D. S. Riker, chemical-merchants, 46 Cedar Street, New York. Aged 40.

Stokes.—On August 18, at Pietermaritzburg, Sir William Stokes. Aged 61. He was the second son of the late William Stokes, M.D. (known to pharmacists as the originator of Stokes's liniment), of Dublin. Sir William was educated at the Royal School, Armagh, at Trinity College, Dublin, and at the medical schools of Berlin, Vienna, Paris, and London. He had been in practice as a surgeon and physician since 1863. He was a gold medallist of the Pathological Society of Ireland, and filled the post of President of the Royal College of Surgeons in Ireland in 1886. Among his other appointments was the professorship of surgery in the Royal College of Surgeons in 1872, senior surgeon of the Government Hospital of Ireland in 1868, President of the Pathological Society of Ireland, and Surgeon in Ordinary to the Queen in Ireland from 1892. When Lord Aberdeen was Lord Lieutenant of Ireland he, on behalf of her Majesty, conferred the honour of knighthood on Sir William Stokes. Sir William contributed a work in 1898 to the "Master of Medicine series" entitled "William Stokes, his Life and Work," and was also the author of many surgical addresses and contributions to the medical Press on clinical and operative surgery. In December last he was nominated by the Secretary of State for War a consulting surgeon to the forces in South Africa, and has done conspicuous work during the later stages of the campaign.

Williams.—On August 18, at Aberystwyth, Elizabeth Julian. Aged 72. Deceased's husband, Mr. Thomas Williams, was formerly in business as a chemist in Bridge Street.

Winter.—At Caistor, on August 15, Ann, wife of Mr. Chas. Winter, chemist and druggist. Aged 79.

Silver Compounds as Antiseptics.

In an interesting paper on the local and constitutional treatment of venereal diseases in the *Therapist*, by Dr. E. Hawkins, it is shown that although the constitutional treatment of such diseases remains much the same, the local applications are quite different in character to those formerly used. The necessity of regulating the bowels, the partaking of simple diet, and the avoidance of highly-spiced condiments and stimulants are particularly urged by Dr. Hawkins. Cubebs, copaiba, sandalwood oil, and benzoic acid are still recommended to make the urine non-irritating to the inflamed mucous membrane of the urethea.

The destruction of the specific germ, or gonococcus, is the work of the local treatment, and all old friends, such as sulphate of zinc or copper, mercuric chloride, and nitrate of silver, are now being cast aside for the organic salts of silver. It has long been known that silver and mercury have a specific action on the gonococcus; but they are so irritating and caustic that they often leave very unpleasant symptoms after continued use. The silver salt also combines with the chlorides in the urine and with the albumen of mucus, and thus interfere with its action on the gonococci which have already penetrated the tissues. Credé, of Dresden, therefore set to work to find other salts of silver having equal bactericidal powers, but without these disadvantages. Eleven salts of silver have recently been specially recommended, and we give brief particulars in regard to them:—

Actol.—Silver lactate. A white powder, without odour and almost without taste, soluble in water and in albuminous fluids, decomposed by light, a powerful antiseptic, 1 in 1,000 kills most pathogenic germs and micro organisms in five minutes, while a weak solution (1 in 80,000) will arrest the growth of schizomycetes. It is is too strong for injection unless used with cocaine. Its best use is as a powerful disinfectant or for reudering drainage-tubes and ligatures aseptic.

Itrol.—Silver eitrate. A white, odourless, and almost tasteless powder, soluble 1 in 4,000 parts of water, therefore less irritating. Used as a dusting-powder, and as a lotion for washing out cavities; sometimes used for gonorrhœa in the form of bougies or sticks. The solution is easily decomposed.

Collargolum or *Argentum Colloidale (Credé).*—In heavy greenish-black particles, which when well diluted gives a reddish-brown solution that is absolutely harmless. Colloidal silver is most frequently used in the form of *Credé's ointment*, of which the formula is:—

	Parts
Argent. colloid.	15
Aq. dest.	5
Ceræ alb.	10
Adipis benz.	70

M.S.A.

This is administered by rubbing into the well-washed skin until it has almost entirely disappeared. The dose of the ointment is 48 gr. for adults and 16 gr. for children. It has been found useful for septic conditions, such as lymphangitis and cellulitis. Internally it is administered in the form of ½-gr. pills for erysipelas, sugar of milk and glycerin being used as excipients.

Siberol.—Silver sulphocarbolate. Occurs as fine crystals, soluble in water, easily decomposed by light and air. It is used as an antiseptic in ophthalmic operations.

Argentamin or *Ethylene-diamine Silver Phosphate* is a solution of 10 parts of silver phosphate in a 10-per-cent. solution of ethylene-diamine, $C_2H_4(NH_2)_2$. An alkaline solution which gives a precipitate with chlorides or albumens, but requires to be kept in the dark. Used in various strengths from 1 in 5,000 to 1 in 250.

Argentol.—Silver chinoseptolate. A yellow powder, slightly soluble in water, introduced by Credé. It is a compound of silver and oxychinoline, and is extremely unstable, for, when boiled, or in the presence of septic material, it at once breaks up into its two constituents. Metallic silver is produced in this case, and not the oxide, as is usual when silver-salts decompose. It has been used as an injection, in an emulsion, from 1 in 1,000 to 300; and internally as an intestinal antiseptic for migraine, epilepsy, and sciatica. The dose as thus given may be raised to 15 gr. per day.

Argonin.—Silver caseinate. A soluble white powder, of which a 10-per-cent. solution should be made by rubbing up with the full amount of water; it is then cautiously heated on a water-bath, with constant stirring until dissolved, and lastly filtered through glass-wool or gauze. Too much heat decomposes the salt, and produces an irritating fluid. Used as an injection, in ½ to 2 or 3 per cent. solution.

New Argonin or *Argonin L.*—Is a fine, light, yellow powder, soluble in water. It contains 10 per cent. of silver, compared with 4·2 per cent. in the older argonin. One-per-cent. solution is used, and retained for five minutes. The gonoeocci soon disappear, and the catarrhal stage is treated by ½-per-cent. zinc sulphate.

Largin.—A recent introduction. It is a compound of silver with an albuminoid protalbin of a greyish colour, having a solubility of about 10 per cent. in water. Freely soluble in glycerin, serum, and albumens, but insoluble in alcohol. Largin contains 11·1 per cent. of silver, and keeps well in light-proof bottles. A solution of 1 in 4,000 is stated to kill gonococci in five minutes, and to penetrate more deeply into dead organic substances than any previously-known silver-albumen compound. A ·75-per-cent. solution and upwards is used as an injection three times a day, and retained from five to ten minutes in the morning and midday, and from fifteen to thirty in the evening. It has also been used with considerable success for some diseases of the eye, in 5-per-cent. solutions.

Protargol.—A chemical compound of silver, and a protein, readily soluble in water, forming a stable solution which gives no precipitate with chlorides, albumens, dilute acids, or alkalies. It has great power of penetration, and solutions from 0·25 to 1 per cent. are not irritating. The solution is best made by rubbing the substance with an equal weight of glycerin and then adding the requisite quantity of a normal (0·6 per cent.) saline solution, and keeping the product in a black bottle. It is better to commence with weak solutions and work up rapidly to 2 per cent. Much stronger solutions can be used with success for moistening the dressings for whitlows and for contused and lacerated wounds. One per cent. is used for nasal affections. It is used extensively for eye-diseases and is much superior in this respect to nitrate of silver; it is absolutely painless. The ointment of protargol is made as follows:—

Protargol.	gr. xxv.
Zinc. oxid.	gr. xv.
Amyli	gr. xv.
Vaselin.	ʒvj.

M.S.A.

For gonorrhœa protargol is undoubtedly a specific—many cases are reported in which cures have been effected in a few days. It has been found useful internally for cancer, ulcer of the stomach, and in chronic diarrhœa. The maximum daily dose is 9 gr. in pills. When glycerin is not present the substance may easily be dissolved in hot water, and should large quantities be used it will make itself in a very short time by simply adding the water to the salt and allowing it to stand. Frothing is thus avoided. It is also used in suppositories and bougies.

Nargol.—A brownish-white powder, soluble in water, gives no precipitate with albumen, but after prolonged contact with sodium chloride silver chloride is formed.

Practical Formulæ.

Neuralgia-liniment.

Ichthyol	ʒj.
Mercurial ointment	ʒj.
Chloroform	ʒvj.
Spirit of camphor	ʒvj.

M.

Shake well before using, and rub over the affected part.

Dandruff-cure.

Ac. salicyliei	ʒss.
Chloralis hydrat.	ʒj.
Sodii sulphat.	ʒiiss.
Aquæ q.s. ad...	ʒiv.

M.

Separate hair, apply a few drops directly to scalp (a medicine-dropper will be found convenient), and rub in well; and so on until whole scalp is treated. Do this every night for a week, then every second night for another week, when the head is to be washed with tar-soap and the treatment resumed. The head should also be washed before beginning treatment.

Bay-rum.

Oil of bay	4 oz.
Oil of pimento	2 dr.
Oil of cloves	1 dr.
Oil of bergamot	2 dr.
Rectified spirit	2 gals.
Water	2 gals.

Dissolve the oils in the spirit, and add the water with which 1 oz. of magnesium carbonate has previously been mixed. Filte next day.

Correspondence

TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects of general interest.

Carbolic Acid and its Homologues.

SIR,—Perhaps the Council of the Pharmaceutical Society might have been wiser in yielding to the advice of their old leader and spent a little time in considering "by special committee" or otherwise, the resolution which they have recently passed so hurriedly in the following terms, defining what is meant by carbolic acid as a poison :—

Liquid preparations of carbolic acid and its homologues containing more than 3 per cent. of those substances, except any preparation prepared for use as sheepwash, or for any other purpose in connection with agriculture or horticulture, and contained in a closed vessel distinctly labelled with the words "Poisonous," the name and address of the seller, and a notice of the agriculture or horticultural purpose for which the preparation has been prepared.

Probably the Council of the Pharmaceutical Society and the wise man who drafted the above resolution meant the same thing, but the fact is that now "homologues of carbolic acid" are poisons under Part 2 of the schedule when in a solution of more than 3 per cent. Possibly they intended that creosote capsules should become poisons, as they are under this resolution. But it is hardly probable that oil of thyme and oil of origanum were within the ideas of either the Privy Council or the Council of the Pharmaceutical Society. Both of these oils are solutions of homologues of phenol of more than 3 per cent. strength. Thymol and carvacrol (isomeric methyl-isopropyl phenols) are typical and well-defined homologues of phenol, and, as such, are clearly covered by this hastily passed resolution.

Probably phenol, the cresols, and the xylenols were intended by the resolution—*i.e.*, really only pure or crude carbolic acid. Would it not be as well to define what is meant?

ERNEST J. PARRY.

134 Upper Thames Street, London, E.C.,
August 20.

The Suggested Pharmacy Bill.

SIR,—For Mr. Keen's information permit me to quote from *C. & D.*, August 4, page 241 :—

Every member of the drafting committee is an advocate for the restriction of Pharmacy Act titles to individuals; on the question of regulation of company pharmacy the committee is equally divided, and there is an intelligent representation of the directorate rider upon it. We dare say they will discuss the matter well, and decide upon the simplest possible measure. We would like to say that whatever decision is arrived at should receive the unanimous support of the trade, and we may say so—two months hence.

As to Mr. Keen's closing statement, and the assertion made in the above quotation, let me refer him to the observation *re* correct premises quoted by "Xrayser" from my letter, page 293, *C. & D.* How we can talk of protecting titles and at the same time discuss the conditions under which unqualified persons may exploit that title, is a sort of reasoning I do not understand.

Yours faithfully,

Blackburn, August 20. R. LORD GIFFORD.

The Assistant's Status.

SIR,—If it is any consolation to "Country Bumpkin" I can assure him that his is by no means the only case by scores. I myself served a five years' apprenticeship, and took a situation at the end of that period precisely on the same lines as "C. B.," only there was no apprentice and no errand-boy.

Some short time ago a well-known firm of chemists complained that on advertising for a qualified man they had only three applicants, who asked salaries ranging from 70*l.* to 80*l.* indoors. Here is an instance of what the masters themselves offer. I am 28, qualified, and have just had an offer of a situation after answering to the following :—

Manager to work up branch, gentlemanly, and of good address excellent references required; abstainer preferred; salary 35*s.* per week (outdoors).

It is needless to say I refused this magnanimous offer, as every self-respecting man would. Calculating the living at a low estimate of 20*s.* per week, there is 15*s.* left, out of which a man has to pay for laundry and find suitable wearing-apparel, and to save in the hope of becoming a master some day, if he can.

Is the above what the Pharmaceutical Society has doubled the examination-fees for? What is the use of raising the status of the assistant if he has nothing to uphold it with?

We are asked on receiving our certificates to become connected with the Society by paying a yearly subscription for the doubtful honour of writing M.P.S. after our names. Not 5 per cent. of the British public know the meaning of the letters, so they are useless for business purposes. I for one would be most pleased to send my subscription annually if the Society would show any willingness to assist us, but they do not.

Pharmacy, taking the whole, is to-day as much a question of £ *s. d.* as grocery and drapery, and not the scientific undertaking that the "higher lights" of the Society would have it. Fully nine-tenths of chemists at the present day are in business to make a living, and my idea is that qualified men all over the country should form a union to put pressure on the Society to look after the vital interests of the trade instead of "dining" scientific celebrities.

In conclusion I strongly object to the stores being termed the most fair of all. They pay large salaries because they have to do so to get qualified men, but they get every farthing's worth of the money they pay out of that man, otherwise it is a "month's salary in advance—you will not be required after Saturday night," and no satisfactory reason for dismissal given.

ONE WHO KNOWS. (162/71.)

SIR,—I would like to ask "Country Bumpkin" what the errand-boys and apprentices do whilst he is "washing" away terebinthine odours and cleansing all the bottles. His employer surely doesn't pay him 30*l.* per annum and board to wash bottles!

I found it was during apprenticeship that the embryo pharmacist endured the "whips and scorns" so eloquently described by your correspondent. But even then an ingenious youth has the remedy in his own hands. Far be it from my thoughts to raise sulky young apprentices to a state of rebellion, but I do think some of them might advantageously make a stand for their rights.

On leaving my apprenticeship berth I was able to select from several very nice offers of situations, and although my salary is not large I am at least independent, treated as a gentleman by my employer, and beyond the influence of that pernicious "indoor" system.

ARTFUL DODGER. (161/63.)

SIR,—There is supposed to be a remedy for most evils, and it is in the power of both "Country Bumpkin" and "Union" to alter the state of things about which they both complain. The day has passed when an assistant, if he is worth anything at all, need put up with such grievances indefinitely. There are, especially just now, vacancies enough and to spare, where his services are well appreciated and far better paid than used to be the case a few years ago. Indeed, the lot of the chemist's assistant is very sensibly gradually improving, so if men are not made comfortable where they are, why do they not take the matter into their own hands and secure a better position elsewhere? The Chemists' Assistants' Union, about which "Union" seems somehow never to have heard, has more good berths on its books than it can find really good men for, and, judging from present appearances, this—to the assistant—satisfactory state of affairs is likely to continue for some time. The Union is anxious to help such cases as these mentioned, and if these gentlemen will kindly communicate with me their cases shall be promptly attended to and remedied.

Yours faithfully,

C. E. PICKERING,
Vice-President Chemists' Assistants' Union.

Sir,—I thoroughly agree with "Union's" letter in last week's issue, and think the time has come when the hard-worked but poorly-paid chemist's assistant should make a stand out against the present deplorable state of things, and firmly believe that if someone would take the initiative great things could be done by banding assistants (both qualified and unqualified) together. Cannot some meetings be arranged in our larger towns, or, first, someone take the matter in hand, and receive names of all qualified and unqualified assistants willing to support the movement?

Yours sincerely,
Qualified. (162/68.)

Sir,—Such letters as those of "Country Bumpkin" and "Union" in your last issue are of comparatively frequent recurrence, but I have not as yet seen any remarks upon the other side of the question.

I have now had twenty-seven years' experience of pharmacy, the first thirteen of which were spent as an apprentice and assistant and the remaining fourteen years in business on my own account. My experience has been gained in both London and country—first-class dispensing and mixed agricultural businesses; and I have during my business career employed upwards of fourteen assistants, and find that good and well trained assistants are exceedingly scarce. Whether exceptional or not, my experience has been most unfortunate, for though I pay well, out of doors, give half a day holiday every week, and expect no Sunday duty—and hours not long—I cannot get anything like half the value for the salary paid. During the whole of this summer I have been unable to leave my counter for any purpose nor even to get an uninterrupted meal, and this notwithstanding the fact that I employ a fully qualified assistant and treat him liberally as regards salary and hours; and from constant reports I get from others in business mine is not by any means an exceptional case. The fact is, I believe that in these latter years apprentices have been very ill-trained, and whatever may be thought by the assistants themselves, qualification by examination does not, and never can, take its place. Nearly every assistant I have met with latterly appears to be as ignorant as an infant of the first principles of business. How many, for instance, have ever thought of or appreciated the fact that each assistant, at an average rate, costs his employer from 500*l.* to 600*l.* of his annual business return, or ever dreams that it is incumbent upon him to do something towards making that return, or he cannot possibly be worth his salary? The chief liking for situations in so-called drug stores is due to the fact that the work is more of a mechanical character and requires less tact and brains. The business of pharmacy, when conducted as such, is one which requires more general information, tact, and common sense than any other business, and it is here that the average assistant falls short of the ideal.

I could go on almost indefinitely, with instances which go to prove the foregoing remarks, and of the difficulties the unfortunate proprietor of a business has with assistants, but let someone else have an "innings."

Yours very faithfully,
Town Mouse. (162/60.)

Dispensing Notes.

A section for the elucidation of difficulties and interchange of views on dispensing-problems.

The Oculist's Prescription.

Sir,—Referring to "Acetum's" prescription in the *C. & D.*, August 11, page 295, I have dispensed the following lotion for the eyes:—

Sol. hydrarg. oxycyan. (1–1,500) ... ℥viij.
M.

I think it was one of Dr. Edgar Brown's, of Liverpool.

Yours,
H. Mossop.

Sir,—Your correspondent "Acetum" (*C. & D.*, page 295) asks for information with regard to an eye-lotion, the prescription, which he reads sol. hyd. oxygen. 1 in 1,500, coming from a Liverpool doctor. A Liverpool oculist very frequently prescribes sol. hydrarg. oxycyanide 1 in 1,500 for ulceration of the cornea.

It would be well for "Acetum" to look at that prescription again. He may possibly have misread it, as the doctor who orders the oxycyanide lotion is not a very plain writer.

Yours sincerely,
Silverhampton.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months.

144/45. *Plumbi.*—Your philosophy is slightly immature.

148/38. *H. S. M.*—(1) To become a Fellow of the Chemical Society you must get five Fellows to attest your chemical competence, pass the ballot of the Fellows at an ordinary meeting, pay 6*l.* on election, and 2*l.* yearly thereafter. (2) Pearmain and Moor's books on the analysis of water, milk, &c., are the latest. They are published by Baillière, Tindal & Cox at 5*s.* each.

151/21. *Ognum.*—Putty-powder or ivory-dust is used for **Polishing Ivory**, the final polish being with a wheel made of cloth discs. The polishing from beginning to end is done with rapidly-revolving wheels.

146/45. *Porcelain.*—"Magenta" and "Fuchsine" are two of the commercial names of rose-aniline hydrochloride. Commercial specimens of the dye vary much in quality, and some contain arsenic acid. You will find Benedikt and Krecht's "Chemistry of the Coal-tar Colours" (Bell, 5*s.*) give you sufficient information regarding most of the synthetic dyes; but there is no book which gives the physiological action of the dyes. That must be inferred from their constitution (given in the book named), but so very little dye suffices to give a brilliant colour to confectionery ($\frac{1}{1000}$ gr. would easily colour 1 oz. of sweets) that the physiological action may be ignored, provided the pure dyes are employed.

114/57. *Cocaine.*—**Coca-wine**:—

Coca-leaves	lb. ij.
Port wine	Cong. iv.

Macerate for a month, shaking daily. Decant, and set aside for another month; again decant, and filter the "foots" through paper.

109/18. *British.*—**Freezing-powders** for ice-safes:—

(1)

Ammonium nitrate	equal parts
Water	

(2)

Ammonium chloride	5 parts
Potassium nitrate	5 parts
Water	16 parts

(3)

Ammonium chloride	5 parts
Potassium nitrate	5 parts
Sodium sulphate	8 parts
Water	16 parts

(4)

Ammonium nitrate	equal parts
Sodium carbonate	
Water	

The quantity of water indicated in each formula is to be added at the time of using. No. 3 is a good general recipe, and represents the composition of commercial freezing-powders.

126/53. *Frigia* (Barcelona).—See reply to "British" above for formulæ for freezing-powders without ice. These powders are generally used for keeping ice-safes at a low temperature; it would be too expensive to employ them for ice-making. Ice is artificially made in Carré's and Linde's machines, which involve the use of caustic ammonia, and produce ice at a much cheaper rate than would be done with freezing-powders.

102/24. *J. E. A.*—**Concentrated Toning-bath.**—The following is the correct recipe for a 1-to-3 concentrated toning-bath :—

Gold chloride	...	...	...	gr. xv.
Ammonium sulphocyanide			...	gr. ccxxv.
Water to	...	...	...	℥xxx.

The sulphocyanide of gold thrown down dissolves when the concentrated solution is diluted.

117/1. *G. J. G.*—**Bleaching Lard.**—We believe that formerly 2 or 3 per cent. of milk of lime was added to lard to bleach it, but such an addition is indefensible. If lard is well beaten when it is setting the air enclosed gives a much whiter product. Water beaten in has the same effect on the colour, but the lard quickly goes rancid.

119/1. *Iodoform.*—The following have each at various times been recommended as the best **Deodorant for Iodoform**:—Tonquin bean, coumarin, thymol, menthol, roast coffee, tannic acid, carbolic acid, balsam of Peru, oils of caraway, peppermint, eucalyptus, spikenard, coriander, anise, sassafras, and *Evodia fraxinifolia*, sanitas oil, and creolin. None of them succeed perfectly, the best results being given with coumarin and peppermint.

150/44. *E. H. R.*—You will find a formula for the syrup in "Pharmaceutical Formulas."

151/45. *J. T.* (Queensland).—We do not give a formula in "Pharmaceutical Formulas" for German yeast, because it is not a compounded article. It is natural yeast, washed from adhering fermented liquor, pressed, and dried. It is quite a distinct industry, and it would be impossible for you or any other chemist to make it without expensive apparatus.

150/49. *D. S. B.* writes :—"Could you inform me what the nature of the liquid is that is used to temper the steel and put a keen edge on scythes? My customer says it is applied with a feather, and is poisonous." This process is unknown to us. To harden the blades scythe-makers put them into whale oil and some other ingredient which is a trade secret, and not the same at every works. The blade is then tempered by heat.

Information Wanted.

Postcard replies to any of the subjoined inquiries will be esteemed.

163/24. Makers of chip boxes.

146/15. Vernisol : where obtainable?

159/25. What is "Fersan," and where obtainable?

159/47. Makers (or where obtainable) of Agrazol, an inhalant for phthisis.

A New Dyspepsia-cure.

It has recently been alleged that the travelling on the new Central London Electric Railway cured a man of loss of appetite of eighteen months' standing, and that the fares are "more than saved by dispensing with the tonic medicines now rendered superfluous." The *World* puts the incident in rhyme :—

Good-bye to the bolus—adieu to pepsine—
Farewell to concoctions of steel and quinine ;
For "pick-me-up" tonics we've now no more use—
Malt extract and coca may go to the deuce ;
No cod-liver oil, if you swallowed a tank,
Could equal one drive 'twixt the Bush and the Bank.
Perish medical potion and chemist's jujube—
The Elixir of Life's in the "Twopenny Tube!"

An important ruling has just been made in the Custom-house law at Buenos Ayres, ordering that all importers of labels, capsules, &c., must prove their right to import the marks those articles bear. This rule ought to put a stop to a great deal of fraud that is prevalent in the Argentine Republic.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C.: August 23.

There are few changes of importance this week, the drug and chemical markets being extremely quiet, with the exception of a slight spurt in one or two articles. Export business to the United States is also very slow, and is not likely to revive for a month or so yet. English refined camphor is ¾*d.* dearer. Menthol and thymol have also advanced. Chamomiles continue in brisk demand, and are held for more money. Citric and tartaric acids and cream of tartar are unaltered, but quieter than usual for the time of the year. Quinine has fluctuated within narrow limits, the demand being mostly for spot delivery.

Higher	Firmer	Easier	Lower
Barium sulphate	Cinchona	Copper sulphate	Oil, turpentine
Camphor (Eng. ref.)			
Canary-seed			
Chamomiles			
Menthol			
Oil, almond			
Thymol			
Vanilla			

Arrivals.

The following drugs, &c., have arrived at the principal ports of the United Kingdom from August 15 to 22, both inclusive:—Aloes (Cape), 83; areca-nuts, 3; arsenic, (Austral.) 60, (from Ghent) 44, (Spanish) 127; bleaching-powder, 74; camphor, 259; carraway-seed, 100; castor oil (Ital.) 40, (Fr.) 223; cocoa-butter, 246; cod-liver oil (Nor.), 263; coriander-seed, 165; cubebs, 155; cumin-seed, 230; cuttlefish, 32; drugs, (from Panama) 11 bags, (from Jamaica) 5; eucalyptus oil (Aust.), 51; fenugreek-seed, 828; galls (Persian), 344; gum arabic, (from Alexandria) 241, (E.I.) 218; gum olibanum, 30; gum sandarac, 39; honey, (Aust.) 110, (Jam.) 14, (Chil.) 398; insect-flowers, 15; insect-powder, 100; kola (W.I.), 34; iodine, 60; lime-juice (W.I.), 136; lime oil (W.I.), 17; nux vomica, 46; opium, 356; potassium iodide, 5; saffron, 2; scammony-root, 14; senna (Tiny.), 81; senna-pods, 60; turmeric (from Bombay), 205; wax, bees', (W.I.) 14, (Chilian) 50; wax, carnauba, 80.

Indian Exports of Spices.

India exported spices to the extent of nearly 26,400,000 lbs. weight in the twelve months ending March 31 last; and the export of cardamons (greatly used everywhere in India itself) has risen gradually though slowly. The really large trade is in chillies, ginger, and pepper, and ginger has greatly developed during the past few years from a total of less than 4,750,000 lbs. in 1892–93 to more than 8,250,000 lbs. in 1897–98, but fell to 8,481,192 lbs. in 1898–99, and again to only 5,959,850 lbs. in 1899–1900. So also with pepper rising from 8,000,000 to 9,500,000 lbs. in exports in 1897–98, to 12,204,066 lbs. in 1898–99, and falling to 10,407,748 lbs. in 1899–1900. The official figures for the past three years compare as follows :—

	1897–98 lbs.	1898–99 lbs.	1899–1900 lbs.
Cardamoms ...	108,961	175,808	191,120
Chillies ...	8,154,144	10,676,596	9,408,385
Ginger	8,272,489	8,481,192	5,959,850
Pepper	9,688,900	12,204,066	10,407,748
Other sorts ...	451,150	462,544	423,372
Total ...	26,675,644	32,000,206	26,390,475

In cardamons, it will be observed, there is a considerable increase on the two previous years—all India, however, still exporting far less than Ceylon, which shipped 499,959 lbs. in 1899. But then the very large home consumption in India must be remembered.

Heavy Chemicals.

[*These prices are for market-centres other than London.*]

The general condition of the heavy-chemical market remains practically unchanged from that mentioned in recent reports. Altogether things are quiet, and there is little new business of any importance passing, either on home or export account. Orders for deliveries against existing contracts are, however, fairly good, and are keeping the works steadily employed. Values show little or no fluctuation, and with continued high cost of production certainly do not tend towards decline.

Alkali-produce.—Products under this heading are without material change. Caustic soda maintains a strong position, and owing to good demand keeps scarce. Bleaching-powder keeps on the easy side, but is now in rather better request again. Saltcake very quiet, and the same remark applies to chlorates of potash and soda. Yellow prussiate of potash in moderate inquiry only, with continued tendency towards decline.

Benzols steady, 90 per cent. being now quoted 10*d.*, and 50 per cent. 10½*d.* to 11*d.*

Sulphate of Ammonia dull, but without change from last prices given. Exports from Leith last week amounted to 643 tons.

Borax and Boracic Acid very firm, and higher figures are far from improbable. Present prices are: Borax crystals, 17*s.* per cwt.; and powdered, 18*s.* per cwt. Boracic acid, 26*s.* and 28*s.* per cwt. respectively.

Colours.—A fairly good business is passing in this market, and prices remain most unchanged and well maintained. Yellows, 9*s.* to 16*s.* per cwt., according to quality. Pulp yellows, 31*s.* to 36*s.* per cwt. Pure chrome, 50*s.* per cwt. Pulp blues, 18*s.* to 42*s.* per cwt., according to strength. Greens, 35*s.* to 36*s.* per cwt. Green, free from arsenic, 36*s.* to 36*s.* 6*d.* per cwt. Mineral black, according to quality, 3*s.* to 4*s.* per cwt. Pure ivory black, 15*s.* 6*d.* to 16*s.* per cwt. Ochres, 50*s.* per ton up, according to shade and strength. French J.C., 60*s.* to 65*s.* per ton. French J.F., 6*l.* 5*s.* to 6*l.* 10*s.* per ton. Umbers, 40*s.* to 60*s.* per ton. Turkish, raw, 7*l.* 5*s* to 7*l.* 10*s.* per ton; burnt, 8*l.* 10*s.* to 9*l.* Oxides of iron, finest, 20*l.*; medium, 10*l.*; and common, 7*l.*

Barium-products are in fair consumptive demand, and prices rule very firm and towards advancement. Blanc fixe (pure precipitated sulphate of barium in paste form), very steady at 7*l.* 5*s.* to 7*l.* 15*s.* per ton in 8 to 9 cwt. casks, free on rails. Chloride of barium, best ordinary refined crystals in bags, 7*l.* to 7*l.* 5*s.* per ton, free on rails, and 2*s.* 6*d.* per ton more f.o.b.; large casks, 5*s.* per ton extra. Hydrate of baryta, purest crystals, very firm and scarce, for prompt 12*l.* 10*s.* to 13*l.* per ton, free on rails in casks, according to quantity. Quotations for the carbonates of baryta are merely nominal, there is still practically nothing to be obtained. Mineral sulphate of barytes, ground, 40*s.* to 90*s.* per ton in bags, according to quality and quantity. Sulphide of barium higher, at 5*l.* 10*s.* to 6*l.* per ton in casks, free on rails.

Liverpool Drug Market.

Liverpool, August 22.

Castor Oil.—The market has been in an unsettled condition during the week in consequence of the weakness of some holders. 3 5/16*d.* per lb. has been accepted for good Calcutta seconds on the quay in one or two instances, but the nominal price has now gone back to 3 7/16*d.* to 3½*d.* Arrivals of first pressure French have taken place, and 3 7/16*d.* or even a shade less has been accepted from the quay. First pressure English is held for the same figure.

Beeswax.—A sale is reported of five sacks Chilian at 7*l.* 7*s.* 6*d.* per cwt. An arrival of 47 packages just reported will be offered at auction next week. One parcel of fine is held for 7*l.* 17*s.* 6*d.* per cwt. Further sales of Gambier beeswax have been made at 7*l.* 5*s.* to 7*l.* 7*s.* 6*d.* per cwt.

Honey.—Of Peruvian, 308 barrels of low grade have been sold at 18*s.* 9*d.* to 19*s.* per cwt.; Pile 1, Chilian, has been sold up to 25*s.* 6*d.* per cwt.; Pile 2 is neglected; 35 cases of Pile X, Chilian extra choice quality, bas realised 40*s.* per cwt. For 35 cases liquid partly set the same price is asked. A further arrival of 48 packages Jamaican has taken place, but holders have not yet named a price. Forty cases Californian have changed hands at 42*s.* 6*d.* to 43*s.* per cwt.

Canary-seed.—There is a much stronger tone in the market, the recent lassitude having entirely disappeared. It is reported that the Greek and Syrian merchants have withdrawn their stocks from the market, and several importers on this market have followed suit; 33*s.* 6*d.* per quarter has been paid for quantity. There are still inquiries, but holders show a tendency to withdraw at the moment.

Ginger.—A small parcel of 17 bags African has changed hands at 25*s.* per cwt.

Turps is depressed, having fallen about 2*s.* 6*d.* per cwt. during the week; 28*s.* 6*d.* per cwt. would now buy American.

Kola Nuts.—Sixteen bags of medium quality, dry, were offered at auction, but were withdrawn without a bid. Owners' idea of value was 1½*d.* per lb.

Quillaia Bark is very firm, sales of quantity having been made during the week at 14*l.* per ton.

Gum Acacia.—Further sales of sorts are reported—15 serons at 70*s.* per cwt., and 3 serons at 73*s.* Holders show a very firm tendency at the moment.

German Drug Market.

Hamburg, August 20.

Our drug-market shows very little business just now, the weather being intensely hot, and most prices are unchanged since last Tuesday.

Agar-agar is steady at 400m. to 405m. per 100 kilos.

Citric Acid is quiet at 285m. per 100 kilos.

Camphor (Refined) is also quiet, second-hand holders offering at 460m. per 100 kilos.

Condurango-bark is scarce at 325m. per 100 kilos.

Cevadilla-seed is unchanged at 75m. per 100 kilos.

Ergot of Rye is unsettled, business having been done at 300m. per 100 kilos.

Galangal is firm at 45m. per 100 kilos.

Lycopodium quiet at 435m. to 440m. per 100 kilos.

Menthol is unchanged at 19½m. per kilo.

Quinine is still unchanged at 49m. per kilo.

Star-anise is quiet and lower at 185m. per 100 kilos.

Spermaceti also quiet at 290m. per 100 kilos.

Japanese Wax is unchanged but steady at 64m. to 64½m. per 100 kilos.

Oils.—Linseed is firmer, but without buyers at the advanced prices. Castor is steady, but in small demand, first pressing in barrels being 64m. to 63½m. per 100 kilos. Cod-liver continues firm at 80m. per barrel for non-congealing oil.

Essential Oils.—Star-anise oil is slow of sale at 14¾m. per kilo. Cassia is unchanged, and so is peppermint.

American Drug Market.

New York, August 14.

Business is dull, but the market maintains a steady undertone and dealers are satisfied with the outlook. Little improvement is expected before the fall.

Aloes.—Curaçoa demand has fallen off, but prices are firm owing to light supplies, 3½c. per lb. is asked for quantity. Cape is quiet, at 6¼c. to 7c.

Beeswax is in good demand, but buyers are not inclined to pay the prices asked. Very little is at present available, and for ordinary pure 31c. per lb. is asked.

Cannabis Indica is firmer owing to better inquiry. Supplies are obtainable on the spot at 25c. per lb, up to 30c. being asked by some dealers for prime quality.

Cinchonidine is dull at 30c. to 32c.

Cod-liver Oil is firmer, and for the finer brands an advance of 50c. is quoted. Quotations are $22.50 to $26, according to quality.

Condurango-bark.—Some demand has sprung up and small packages are offered at 24c. to 25c.

Ergot is quiet but steady. Russian is quoted at 52c. to 55c. per lb., with a little available at 50c., and Spanish at 65c. to 70c.

Opium is quiet, case lots are obtainable at $3.35 per lb.

Quinine.—Domestic is quoted "without offer" at 37c. and foreign at 35c. Second hands quote 35c., but offer sparingly.

Sarsaparilla.—Mexican is held at 7½c., with fair sales.

Senega.—Supplies on the spot are small and offered at 28c. to 30c. per lb. Reports from the North-West are conflicting but are of a bearish nature, and buyers consequently will not pay present prices.

Serpentaria is higher, and dealers at primary sources are holding out for high figures. Spot-quotations vary from 32c. to 35c. and offerings are very small.

Valerian.—English is steady at 25c. German is quiet at 15c. and Belgian at 8c. to 9c.

Cocaine has advanced 50c. per oz., and is now quoted at $5.25 to $5.45.

Cablegrams.

Hamburg, August 23, 11.46 A.M.:—Refined camphor is quiet, at 460m. per 100 kilos. in second-hands. Japanese peppermint oil is steady, at 8¼m. per kilo. Ergot is dull of sale, and star-anise is quoted 185m. per 100 kilos.

* * * *

Amsterdam, August 23, 4.39 P.M.:—The auctions of cinchona-bark held here to-day consisted of 5,132 packages (against 4,418 packages in June), weighing 455,950 kilos.,

and containing over 21 tons of quinine. Of the above-mentioned quantity 4,790 packages were disposed of at an average unit of 11.75c. per ½-kilo., against 10.80c. paid at the July auctions. The following were the approximate quantities of bark purchased by the principal buyers:—English and American factories, which purchased the equivalent of 8,235 ks. quinine sulphate; Brunswick factory, 1,922 kilos.; the Mannheim and Amsterdam factories, 3,614 kilos.; the Frankfort-on-Maine and Stuttgart factories, 3,235 kilos.; and various buyers, 2,718 kilos. The prices paid for the manufacturing-bark ranged from 12c. to 116½c. per ½-kilo., and for druggists', from 10¾c. to 65¼c. per ½-kilo. The tone was very firm.

London Markets.

ACID, CARBOLIC.—Steady. Crystals, 39° to 40° C., are quoted 10⅛*d.* to 11*d.*; 34° to 35° C, 10⅜*d.* to 10½*d.* per lb.; 60-per-cent. crude, 2*s.* 9*d.*; 75 per cent., 3*s.* 3*d.*; Cresylic, 95 per cent., 1*s.* 4*d.* per gal.

ACID, CITRIC.—Flat, with sellers at 1*s.* 3¾*d.* to 1*s.* 4*d.* per lb.

ACID, TARTARIC.—Quiet at 1*s.* 0½*d.* to 1*s.* 1*d.* per lb. for English, and 1*s.* for foreign.

AGAR-AGAR is quoted 1*s.* 10½*d.* per lb., c.i.f., for prime quality.

ALOES.—About 140 cases new-crop Curaçao have arrived this week, also 7 cases of Zanzibar in skins, which is scarce. Socotrine in kegs sell slowly at 75*s.* per cwt.

ARROWROOT.—St. Vincent's was bought in at 2*d.* to 2½*d.* per lb. at Wednesday's auctions. Good Natal sold at 6*d.* per lb.

BELLADONNA-LEAVES are coming forward slowly, and for what little is offered 55*s.* per cwt., c.i.f., is wanted.

A Trieste report, dated August 15, states that large quantities have changed hands during the past month, and only limited quantities are now available.

BENZOIN.—Immediately after the sale last week there was a fair business in Sumatra at from 6*l.* for fair up to 7*l.* 10*s.* for good seconds. There have been no arrivals of Sumatra or Siam this week.

CAMPHOR.—English refined was advanced ½*d.* per lb. on Monday, ton-lots of bells and flowers now being quoted at 2*s.* 3½*d.*, and tablets at proportionately higher rates. The lowest c.i.f. price for Japanese crude is 182*s.* 6*d.* per cwt.

Hong-Kong advices, dated July 20, report that the stock is being gradually reduced by Parsees, who buy small lots of 25 to 50 cases for shipment to India, paying prices up to $94. Monopoly camphor is offered at $107 for "A" quality, and $97½ for "B"; stock, 400 cases.

CHAMOMILES have been in brisk demand again this week, and prices have advanced quite 2*s.* 6*d.* to 5*s.* per cwt., holders of Belgian flowers of first-pickings now asking 80*s.* to 85*s.* per cwt., London terms. Although the crop is a good one, the growers are asking higher rates, and in some instances an advance of 5*s.* per cwt. has been paid to them.

CINCHONA.—The N. V. Vriesseveen cinchona-bark department at Amsterdam reports the shipments from Java to Europe from July 10 to August 20, 1900, at 1,009,000 Amst. lbs. The total from January 1 to August 20 has been 5,201,408 Amst. lbs.

COCAINE remains firm at last week's advance. The lowest price in second-hand appears to be 16*s.* 9*d.* per oz. net.

COCOA-BUTTER.—The auctions to be held at Amsterdam on September 4 will consist of 75 tons Van Houten's, 12 tons Helm, 4 tons De Jong, and 18 tons German brand.

COLOCYNTH.—Further small sales of fair Turkey apple, ex last week's sale, have been made at 1*s.* 4*d.* per lb.

A Trieste report, dated August 15, states that shipments of the old crop may be considered as closed, and importers will now have to wait until the new production comes forward in October-November.

COPPER SULPHATE is easier, at 23*l.* 5*s.* to 24*l.* 5*s.* per ton on the spot, according to brand.

CREAM OF TARTAR.—Quiet, but steady. Best white French crystals are quoted 76*s.*, and powder 78*s.* per cwt., and 98 per cent. 81*s.*

DRAGON'S-BLOOD.—Reed gum remains slow of sale at 9*l.* per cwt. for coarse, and 10*l.* for good. A few more cases of fine lump ex auction have been sold at 15*l.*, and one mark has been cleared. Two cases of fair have arrived.

GALLS.—For blue Persian 120*s.* per cwt. is still asked, and 97*s.* 6*d.* for green. The new crop is not expected for two or three months yet, so that the present small stock must suffice. In Chinese galls there is little to be had on the spot, but forward business has been done in new crop.

The exports from Shanghai from January 1 to June 30 are as follows (piculs):—

Year	Germany and Holland	London	France	U.S.	Total
1900	21,046	1,561	2,944	2,366	27,917
1899	11,905	2,204	1,567	1,186	16,862
1898	15,351	5,103	481	2,107	23,042
1897	11,389	729	775	935	13,828

GENTIAN.—The market abroad, especially in France, is very firm, and offers of the new crop which are usually made about this time of the year are wanting. On the London market it is possible to buy at 16*s.*

GOLDEN SEAL is firmer is New York, according to private advices. On the spot 2*s.* 6*d.* per lb. net has been paid for autumn-dug root.

GUM ARABIC.—At auction to-day the considerable quantity of 2,400 packages offered (including a good selection of Soudan sorts) was almost entirely bought in. Of 2,389 bags East Indian, 50 sold, Karachi-Amrad, at 51*s.* per cwt. for dull pale ambery, 30*s.* for dull common brown, 28*s.* red, 15*s.* to 18*s.* pickings, and 30*s.* for fine siftings. Of 146 packages Aden, 3 sold, at 48*s.* for good bold pale.

GUM TRAGACANTH.—During the past few days a considerable business has been done in all qualities, the principal demand being for the better qualities of Bagdad and Persian at steady prices. Firsts are quoted 14*l.* 5*s.* to 14*l.* 10*s.* per cwt., seconds 12*l.* 5*s.* to 13*l.* 10*s.*, thirds 10*l.* 15*s.* to 11*l.* 10*s.*, and fourths 8*l.* to 10*l.* 10*s.*

INDIGO.—The outturn of the crop in Lower Bengal this season will, according to Calcutta reports, be the smallest on record.

INSECT-FLOWERS.—The arrivals in July at Trieste amounted to 2,428 cwts., and the sales to 1,196 cwts. A Trieste report, dated August 15, says, "The weakness of the market for open flowers was only of very short duration, and in consequence but a very limited quantity of buyers got the benefit of it. As soon as larger orders came into the market, sellers at once withdrew altogether, and after a week or so came out again with considerable higher pretensions. The consequence was that very little business was done, and it seems now as if nobody is willing to pay the prices which are asked. The quotation for new open goods is now 47*s.* per cwt., c. and f."

IPECACUANHA.—A fair business was done in Rio root last week immediately after the sale, 12*s.* per lb. being paid for ordinary, but for good bright selected bales 12*s.* 3*d.* is quoted. There are sellers of Cartagena at from 7*s.* 10*d.* to 8*s.* per lb., the former figure being for ordinary quality.

MUSK.—The exports of musk from Shanghai from January 1 to June 30 have been as under (in catties):—

Year	Paris	London	New York	Hamburg	Total
1900	649½	43	198	51½	942*
1899	708	179½	185½	125	1,198
1898	859	100	218	86	1,263
1897	535	417	430	115	1,497
1896	569	471	248	117	1,405

* About 95 per cent. was Tonquin, and the remainder Cabardine, Tampi, and Sawko. The above greatly decreased exports are responsible for the much higher rates that have lately been paid.

Menthol.—One holder has advanced his quotation to 10*s.* 3*d.* per lb., spot, for Kobayashi, but so far this figure has not been paid. The advance is said to be due to the small supplies on the spot. Cables on Wednesday quoted 9*s.* 4½*d.*, c.i f.

Oil, Almond.—Owing to the advanced rates now paid for almonds English manufacturers of sweet-almond oil have advanced their quotation to 1*s.* 10*d.* per lb., and 2*s.* for pallid in wholesale quantities.

Oil, Anise, Star.—Very quiet, with sellers at 6*s.* 6*d.* per lb. on the spot, and perhaps a shade less.

Oil, Castor.—Italian is very firm, with little offering, at 39*s.* per cwt., c.i.f.

Oil, Cod-liver.—Our Bergen correspondent writes under date of August 18 that the cod-liver oil market is practically unchanged, although possibly somewhat more quiet. Best Lofoten non-congealing oil is held at 76*s.* per barrel, f.o.b. Bergen. The exports to date from Bergen are 5,466 barrels against 8,101 barrels at the same time last year.

Oil, Peppermint.—Dementholised "Kobayashi" brand is quoted 3*s.* 7*d.* per lb., c.i.f., and on the spot there are sellers at 3*s.* 9*d.* to 4*s.*; for 40-per-cent. oil 6*s.* is reported to have been paid this week.

Oil, Turpentine.—Values have been most irregular this week, the market at times being "panicky." On Thursday American on the spot touched 26*s.* 4½*d.* to 26*s.* 6*d.* per cwt.

Opium.—In Persian further business has been done for October-November shipment at 13*s.* 6*d.* per lb., c.i.f, and at this figure there are further buyers.

Smyrna, August 10.—There is nothing new to report. Some of the weak holders are beginning to feel tired of the prolonged inactivity on the part of buyers, and wishing to make progress may possibly decline next week a 1*d.* or 2*d.* per lb. (This decline has since come about). The sales this week consist of 5 cases old and new Karahissar and Gerli at the equivalent of 9*s.* 6*d.* to 9*s.* 8*d.* per lb., c.i.f. The arrivals are 2,290 cases, against 1,264 cases.

Orris.—A leading article in the *Daily Telegraph* to-day on the Orris-root Syndicate has caused some amusement on this market. The article in question is based on a British Consular report from Leghorn, issued so far back as May last, which was duly noticed in the *C. & D.* at the time. There has been more inquiry on the London market this week, but so far no actual business has resulted. Bids have been cabled out to Leghorn offering 49*s.*, c.i.f., for picked Florentine and 47*s.* for sorts, but it is doubtful whether they will be accepted by the Syndicate. As a matter of fact, there is a great uncertainty about the prices quoted by the Syndicate. There are holders here who would be glad to sell Florentine at 50*s.* and upwards.

Quinine.—The first two days of the week were very quiet in the second hand market, but on Wednesday there was a distinctly firmer tone, although only a small business was done. For spot 1*s.* 6⅞*d.* was paid on that day, and 1*s.* 7*d.* for December, and to-day 1*s.* 7⅛*d.* is said to have been paid for December delivery, but this figure is not confirmed. Speculators are, however, waiting the result of the bark sale in Amsterdam.

Rhubarb.—The following interesting statistics relate to the exports of rhubarb from Shanghai from January 1 to June 30, the figures representing piculs (1 = 133⅓ lbs.):—

Year	London	Continent	U. States	Total
1900	228	318	194	740
1899	527	855	197	1,579
1898	978	952	374	2,304
1897	1,007	497	480	1,984
1896	206	487	—	693

It will be noticed that during the past half-year the exports do not amount to half those of the corresponding period of 1899. Rhubarb is slow of sale this week, and there have been few deliveries. There have been no arrivals.

Saccharin of 500 or 555 strength, is quoted 27*s.* 6*d.* per lb.

Salicin of new crop is quoted by makers at 15*s.* per lb. and upwards, according to quantity.

Sarsaparilla.—Fifteen bales of red and yellow native Jamaica have arrived this week, and three bales of grey Jamaica; small sales of this description are reported at 1*s.* 10*d.* per lb. for good.

Seeds.—*Canary* has continued in demand, and prices are dearer; 32*s.* per quarter has been paid for Turkish, and 33*s.* for Barbary. *Coriander* steady at 10*s.* per cwt. for old, and at 12*s.* for new crop. *Caraways* very firm, but very little business passing owing to the high prices asked from Holland. *Cumin* steady at 28*s.* per cwt. for Morocco, and at 34*s.* for Malta. The price in Malta is equivalent to 40*s.* in London, but there is only a small stock here. A good business has been done in bold clean *Linseed* at 60*s.* per quarter.

Senega.—Private advices from New York to hand this week quote Minnesota root at 1*s.* 4*d.* to 1*s.* 4½*d.* per lb., c.i.f terms. On the spot 1*s.* 7*d.* is wanted.

Serpentary is quoted 1*s.* 4*d.* per lb., c.i.f.

Shellac.—Very quiet, with a few retail sales. Fair second orange TN is quoted 59*s.* on the spot.

Spices.—A moderate business has been done during the week without any material change in values. At auction on Wednesday there was no demand for Cochin *Ginger*, and all the parcels offered were bought in: washed rough at 32*s.* cuttings at 27*s.* 6*d.*, and unassorted native cut at 50*s.* per cwt.; bold brown Calicut at 36*s.* per cwt. Jamaica also was bought in. Fair Penang *Cloves* sold at 7¼*d.*, and common at 5⅞*d.* per lb. Zanzibar are quiet at 3½*d.* per lb. for future delivery. East India *Capsicums* were withdrawn at 30*s.* to 32*s.* 6*d.* per cwt., and Natal at 90*s.* per cwt. *Cinnamon-chips* sold at 2⅞*d.* per lb. for oil-damaged, sound being bought in at 3⅛*d.* Featherings sold at 7*d.* to 7½*d.*, and pieces at 9*d.* per lb. *Pimento* firmly held for 3½*d.* per lb. for common, 3⅝*d.* for fair, and 3¾*d.* for fine. *Cassia-lignea* bought in at 55*s.* per cwt. for new selected. *Cassia-vera* withdrawn for 25*s.* per cwt. *Pepper* firm on spot, but slightly easier for arrival; Singapore and Siam white were bought in at 9½*d.*, good Singapore at 10¼*d.* to 10½*d.*, and Penang at 8¾*d.* per lb. Fine Singapore partly sold at 11½*d.* per lb. Black Penang held for 5¾*d.*, and Singapore for 6⅜*d.*, at which business is doing privately. There are sellers of Singapore at 6½*d.* for October-December shipment.

Styrax.—Liquid is offered from Trieste in limited quantity at 73*s.* 6*d.* per cwt., c.i.f., in barrels, and 77*s.* 6*d.* in cases.

Sulphonal.—Makers' price is unchanged at 20*s.* 6*d.* per lb.; and in second-hands there is an offer of unbranded goods at 18*s.* 6*d.*

Sulphur.—The exports from Messina during July amounted to 27,530 tonnes of 13 Sicil cantars against 28,167 for the corresponding month of 1899. The stocks in Sicily at the end of July were 198,973 tonnes, against 209,309 tonnes.

Thymol.—One maker has advanced his price to 14*s.* 9*d.*, but in second-hands there are sellers at slightly less.

Turmeric.—Small sales of Bengal have been made at 28*s.* 6*d.* to 29*s.*, and Cochin split bulbs at 7*s.* 6*d.* to 8*s.* per cwt.

The exports from Shanghai from January 1 to June 30, have been as follows (in piculs):—

Year	Germany	France	London	U.S.	Total
1900	1,682	1,135	504	1,423	4,744
1899	684	1,359	354	1,670	4,067
1898	800	300	2,018	1,253	4,371

Vanilla.—At auction on Wednesday, 350 tins were offered and readily disposed of at full rates to 1*s.* 6*d.* advance in some instances at the following rates:—

Seychelles.—Fair to good chocolate, 7 to 8½ inches, 21*s.* 6*d.* to 24*s.* per lb.; 6 to 7 inches, 19*s.* to 22*s.* 6*d.*; 4 to 6 inches, 17*s.* to 21*s.*; 3 to 5 inches, 15*s.* to 17*s.* 6*d.*; brown and split, 12*s.* to 17*s.*

Bourbon.—6½ to 8 inches, 23*s.* 6*d.* to 25*s.* 6*d.*; 6 to 6½ inches, 21*s.* 6*d.* to 22*s.*; 4½ to 5 inches, 17*s.* 6*d.* to 20*s.*; 4 to 4½ inches, 17*s.* to 18*s.* 6*d.*

Tahiti, slightly mouldy, 4 to 6 inches, 3*s.* 9*d.* to 4*s.* per lb.

Produce Notes.

Tahiti Vanilla.

The quantity of vanilla exported from Tahiti during 1899 has been greater than at any previous period in the history of the island, the figures being 130,113 lbs. in 1899, against 75,740 lbs. in 1897, and 92,137 lbs. in 1898. The price, however, has sensibly decreased since 1897, for whilst in that year it realised in Tahiti as much as an average of 9*s.* 4*d.* per lb. it fetched only 4*s.* 5¼*d.* in 1898, and 5*s.* 2*d.* in 1899. This is owing partly to foreign markets being overstocked, but also to the indifferent manner in which a great portion of the vanilla is prepared for shipment by the Chinese merchants, who, in order to remit to San Francisco and other places against goods received or ordered, buy up the green beans (often immature), which they casually and imperfectly dry, cure, and pack, whereby much of the aroma is lost. The destination of the exports last year were as follows:—America (San Francisco), 21,321*l.*; New Zealand (Auckland), 4,196*l.*; United Kingdom, 6,947*l.*; France, 1,198*l.*; Chili (Valparaiso), 39*l.*

The Olive-oil Outlook.

The Acting Vice-Consul at Gallipoli, in his latest report on olive oil, says that of recent years the production and export from Gallipoli (one of the leading Italian oil-ports) have considerably diminished, owing to a succession of bad crops, due to various causes. This has led the landowners to cut down their olive-plantations with a view to planting vines. The consequence will be that, in future, a diminished yield only will be available. Of the Gallipoli oil-exports during 1899 (6,746 tons), Italy took about one-half, Russia and Great Britain the remainder. Reports from the British Consuls at Bari and Apuglia practically confirm the above, especially as regards the cutting-down of the olive-plantations.

Jamaican Honey and Beeswax.

The following table illustrates the value of the exports of boney and beeswax from Jamaica during 1888 and 1898 respectively:—

	Honey		Beeswax	
	1888	1898	1888	1898
	£	£	£	£
To U.K.	1,315	1,164	4,773	9,148
To U.S.A. ...	26	939	50	1,046
	1,341	2,103	4,823	10,294

It is evident from the above tables that, during the ten years from 1888 to 1898, the value of honey exported from Jamaica has increased from 1,341*l.* to 2,103*l.*, but it will be noticed that the U.S.A. considerably increased her imports, while those to the U.K. have decreased. During the same period the value of beeswax exported has increased from 4,723*l.* to 10,294*l.* Some share of this increase is reported to be due to the intelligent action of the Jamaica Agricultural Society, who have encouraged a better system of caring for the bees and recovering honey and wax.

Camphor-cultivation in Ceylon.

Mr. John C. Willis, Director of the Royal Botanic Gardens, Peradeniya, Ceylon, has addressed a letter to the Planters' Association, asking for information regarding the cultivation of camphor in Ceylon. He believes that, since the rise in price caused by the Japanese monopoly, the time is now ripe for rendering camphor a profitable minor product in Ceylon. He proposes to work up all information received, and all elsewhere available on the subject, with instructions for cultivation, results of distillations, &c., into a circular, to be published later in the year.

West Indian Lime-juice.

Mr. Algernon E. Aspinall, Secretary of the West Indian Committee, Billiter Square Buildings, E.C., writes to the *Times* as follows:—"The attention of the West Indian Committee has been called to the fact that at the present time lemon-juice is being largely mixed with lime-juice in this country, and the compound is being sold as 'lime-juice,' to the detriment of the buyer and of those British West Indian colonies, such as Montserrat and Dominica, where the lime fruit is extensively grown. The West Indian Committee therefore confidently appeals to the British public to further the interests of those colonies by insisting upon 'pure West Indian lime-juice' and 'cordials' being sold in bottles marked as such or so described in the invoices. By this precaution every buyer will secure for himself the benefit of the Merchandise Marks Act (1887), which forbids any false trade description, and thus secure the buyers in obtaining the goods they have asked for."

Bengal Government Cinchona-plantations.

THE annual report relating to the administration of the Bengal Government's cinchona-plantations in Sikkim and the quinine-factory for 1898–99 has come to hand by the Indian mail this week. As usual, it is compiled by Major D. Prain, M.B., F.R.S.E., Government Quinologist, and differs but little from its predecessors.

We find that the expenditure on the plantation amounted to 58,472r., against 66,509r. in the previous year, the decrease being chiefly in the temporary establishment and in the salaries of European assistants. The amount spent on account of the quinine-factory fell from 89,278r. to 65,468r. Of this reduction, however, 25,756r. was due to smaller purchases of bark in Madras, and it is pointed out that this cannot be regarded as a true saving, as it would have been to the advantage of the factory to spend the full allotment of half a lakh. The cash receipts show a surplus over cash expenditure of 35,579r., but, owing to the fall in the price of bark, there has been a large decrease in the value of the stock in hand. Dr. Prain estimates the net profits at 10,879r., as against 11,632r. last year, which is regarded as satisfactory.

From the Mungpoo division 267,505 trees and from the Sittong division 201,935 trees were removed, while 170,136 young trees were planted out, thus showing a net diminution of 299,304 trees. Extensions have taken place within the Mungpoo division amounting to 130·5 acres, of which 123·3 acres have been put under *Calisaya Ledgeriana*, and 2 2 acres under hybrid cinchona. During the coming season an effort will be made to plant a further 120 acres of *Calisaya Ledgeriana* bark. Major Prain visited during the year the piece of forest known as the Narchu (or Enggo) block, which is at present held as a cinchona-reserve, but as it was found to be unsatisfactory for a plantation, the Government has in consequence issued instructions to examine other forest land in the Darjeeling district with the idea of extending cinchona-growing.

The whole of the bark harvested on the plantation during the year has been taken from sickly or stunted trees, and amounted to 236,098 lbs., which was practically all obtained from quinine-yielding barks. Purchases amounting to 131,615 lbs. were made partly from private plantations in Sikkim and partly from private plantations in Southern India, about one-half of the grant (50,000r.) being expended.

The details regarding the manufacturing department show that the factory worked up 101,800 lbs. of mixed succirubra and hybrid barks, from which 3,921 lbs. of cinchona-febrifuge was produced, and 436,584 lbs. of quinine-yielding bark, from which 10,335¼ lbs. (165,300 oz.) quinine sulphate was extracted; the percentages of obtained products were thus 3·84 per cent. and 2 36 per cent. respectively. The total outturn from the factory for the year was thus 14,256½ lbs. (228,100 oz.), exceeding that of the previous year by 32½ lbs.

The issues of quiuine during the year amounted to 8,766½ lbs. (140,264 oz.), against 10,939 lbs. (175,024 ozs.) in 1897–98: this is almost the same as the issues of 1896–97, which were 8,482 lbs. The decrease of 2,172½ lbs. indicated either that malarial fevers were less prevalent during 1898–99 than during 1897–98, or that those who purchased quiuine for distribution among the poor had fewer funds at their disposal during 1898–99 than the preceding year. Of this decrease, 890½ lbs. was due to a diminished demand on the part of the medical depôts in the Bengal and Punjab commands, and the remainder to various causes.

The issues of cinchona-febrifuge during the year amounted to 2,993¾ lbs., against 3,398¼ lbs. during 1897–98. This decrease of 404½ lbs. is accounted for by a diminished demand on the part of Government officers and medical depôts; on the other hand, the demand on the part of the general public increased to the extent of 231¼ lbs. The obligation to supply quinine for conversion into pice-packets in the North-West Provinces has during the year been transferred to the Madras factory. In Bengal this demand appears to have become stationary; 2,200 lbs. (the same quantity as was taken last year) was supplied for this purpose to the Inspector-General of Gaols, Bengal. The stock of quiniue in hand at the close of the year was greater by 1,569 lbs. (25,104 oz.) than it was at the close of the year 1897–98.

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Consular Counsel.

ONE of the most interesting of the many reports received from the Foreign Office this week is that of Consul J. N. Jordan on the trade of

Corea,

who has something new to say regarding ginseng-root, which is one of the monopolies of the Corean Government. The total exports from Chemulpo last year showed a diminution of 71,164*l.*, being 39,979*l.* against 97,446*l.*, the decrease being accounted for by lower values. The reason for this root varying so much is that it takes properly about eight years to come to maturity, but if prospects for its sale are good every available root is taken, and *vice versa*; hence the great difference of nearly 60,000*l.* between the yields of 1899 and 1898. It is significant to note that the crop reaped in the autumn of 1899 has been sold to a Chinese syndicate for 103,000*l.*, thus showing a still greater difference between two successive years. The contract of sale expressly stipulates that the 1900 crop should not be exported from Corea until after January, 1901. The whole crop was successfully and safely got in under the personal supervision of Mr. McLeary Brown, C.M.G., the Chief Commissioner of Customs, and his Staff. We learn that "Price's candles" are steadily growing in favour with Coreans, and a fairly good business is being done in this article, the imports of which rose considerably last year.

San Francisco.

The importation of chemicals is steadily decreasing (says Consul Moore), many articles that formerly came from Great Britain being now supplied by the local manufacturers. Soda ash and caustic soda continue to come in small quantities, but the consignments of the latter are rapidly dwindling away. The exports of quicksilver show an increase of 4,085 flasks over those of 1898; 4,000 flasks were sent to China, which was the first shipment to that country since 1893. A large amount was sent overland by rail, of which no record is published. Prices averaged about $40 per flask. There was a brisk demand for Californian honey, and prices were exceptionally high. The output of the year was estimated at eighty carloads of 12 tons each, and the entire amount has been sold or shipped with the exception of eight or ten carloads.

At Gothenburg

the prospects for the British chemical-trade are certainly brighter than those of 'Frisco, and, concentrating Mr. Consul Duff's remarks, we find that—

1. Alkali, extensively used by the glassworks, wood-pulp and paper mills, as well as by the textile industry, is chiefly supplied by the United Kingdom. Imports: 1899, 4,132 tons; 1898, 5,022 tons.

2. The manufacture of bleaching-powder by an electrical process, recently commenced in Sweden, does not seem to affect the import of this article, which, as hitherto, is obtained from the United Kingdom in increasing quantities. Imports: 1899, 1,575 tons; 1898, 1,156 tons.

3. Glauber salts, an important and increasing article of import to Gothenburg, finds its most prominent consumers among the glass and wood-pulp manufacturers. Imports: 1899, 5,698 tons; 1898, 4,343 tons.

4. Sulphur, both crude and refined, largely used in the manufacture of wood-pulp, is imported from the United Kingdom and Sicily, the greater quantity consisting of raw sulphur from Girgenti. Imports: 1899, 5,741 tons; 1898, 6,636 tons.

Other chemicals imported last year were chlorate of potash, 3,700 cwt., against 2,660 tons; potash carbonate, 6,540 cwt., against 5,805 cwt.; and saltpetre, 1,500 cwt., against 1,440 cwt. in 1898.

There has been a considerable increase in chemicals connected with the development of local manufactures in the consular district of

Turkey.

The declension of British trade with Turkey is very clearly brought forward by the Chamber of Commerce meeting recently at Constantinople. The President (Sir James William Whittall), in his address, has to regret that this country's trade with Turkey shows a further and serious falling-off for the past year in proportion to the whole. Unfortunately, official statistics are only obtainable up to 1895-96, and the statement is made on what is considered good authority. It is not worth while to enter into the figures given for the years prior to the latest official account, because for the last four years there is nothing to work from. There is, however, no disguising the fact that the imports of this country's goods into Turkey are losing ground, and that to the advantage of other trade-competitors.

Sir William Whittall, after careful consideration of the situation, has no hesitation in stating that the declension is due to the enormous efforts made by the Germans, French, Italians, Austrians, to stimulate their respective trades. Every one of these nations has subventioned lines of steamers touching at all the small Turkish ports, thus bringing the traders there in direct touch with the European producers, by which means a great advantage is gained. If, on the other hand, a merchant at any of these ports wishes to buy British goods he must travel to Constantinople to effect his purpose, employ an agent, and pay for the transportation of the goods to his own place, the merchandise having already been saddled with heavy dues on arrival at Constantinople. The address altogether presents a sorry picture of British trade with Turkey.

Northern Portugal,

says Mr. Vice-Consul Grant, is importing more chemicals. Here are the figures:—

—	1897	1898	1899
	Kilos.	Kilos.	Kilos.
Alkalies	577,842	585,475	625,954
Nitrate of potash ...	208,618	232,948	263,520
Chloride of calcium ...	256,601	282,768	475,480
Chemical products, not specified	741,969	1,136,183	1,396,630
Colours and dyes ...	673,397	660,823	808,561
Dye extracts	302,804	309,138	646,783

Germany.

The American Consul-General at Frankfort reports that German publications in the interest of manufacturers of chemicals generally, and those of coal-tar colours in particular, complain that the new commercial treaty between the United States and France reduces the tariff on French coal-tar colours from 30 per cent. *ad valorem* to 24 per cent., while such German colours will have to pay 30 per cent., Germany not receiving this benefit unless she makes concessions to the United States. Attention is called to the fact that in consequence of protective duties of the United States the coal-tar colour industry is being built up there, which will greatly injure Germany, and every effort should be made to have the duties lowered, in order to avoid the establishment of American coal-tar colour factories and to facilitate German exports.

German interested circles advocate free entry of chemicals into Germany, and, if possible, free trade in those articles by other countries, or at least greatly reduced duties.

Amsterdam.

Mr. Robinson, British Consul, in his last report states that that city has done its best to keep pace with the other northern ports of Europe in providing accommodation for shipping, and as the whole of the docks are in the hands of the municipality, which has always of late years made cheap and ample accommodation its chief aim, the port has become one of the cheapest in Europe, no effort having been spared to overcome the natural and unavoidable disadvantages of its position. The North Sea Canal, by which it is approached, can now admit the largest ships and cargoes without the necessity of lightering at the entrance. The dock and quay accommodation is sufficient for a very large trade. Railway communication with the interior and to Belgium and Germany is ample, and the tariffs are very moderate. A new entrepôt dock will shortly be completed which will bear comparison with the best yet known. The dock and quay dues are very reasonable, and the North Sea Canal is an entirely free waterway.

ABRIDGED LIST OF

'Sanitas' Specialities

'Sanitas' DISINFECTING FLUID
1/- Pint Bottles, 3/- per ½ gallon, and 5/- per gallon.
Colourless, fragrant, non-poisonous, and does not stain. Kills all disease germs; and should be used for general disinfecting purposes, spraying (oxygenating) the air, &c.

BELLOWS SPRAYS
2/6 each. For distributing 'Sanitas' Disinfecting Fluid from the Pint Bottles.

'Sanitas' CRUDE FLUID
1/- Bottles, 3/- per ½ gallon, and 5/- per gallon.
For drains, sewers, closets, bilge-water, street watering, &c.

'Sanitas' OIL
1/- and 4/- Bottles, and 15/- gallon.
For fumigating and inhalations.

'Sanitas' FUMIGATORS
(Bronchitis Kettles) 2/6 each.

'Sanitas' DISINFECTING POWDER
6d. and 1/- Tins, and in Casks of ¼, ½, and 1 cwt., at respectively 4/-, 7/3, and 12/6.

'Sanitas' AIR PURIFIER (*Sawdust*)
In 1/- Tins; in 7 lb. Tins, 2/-; 14 lbs., 3/6; 28 lb. Bags, 5/6; 56 lb. Bags, 10/-.

'Sanitas' DISTEMPER
7-lb. Tins, 1/9; 14-lb. Tins, 3/-; 28-lb. Kegs, 5/6; 56-lb. Kegs, 10/6; and £1 per cwt.
For whitening and disinfecting walls, ceilings, &c.

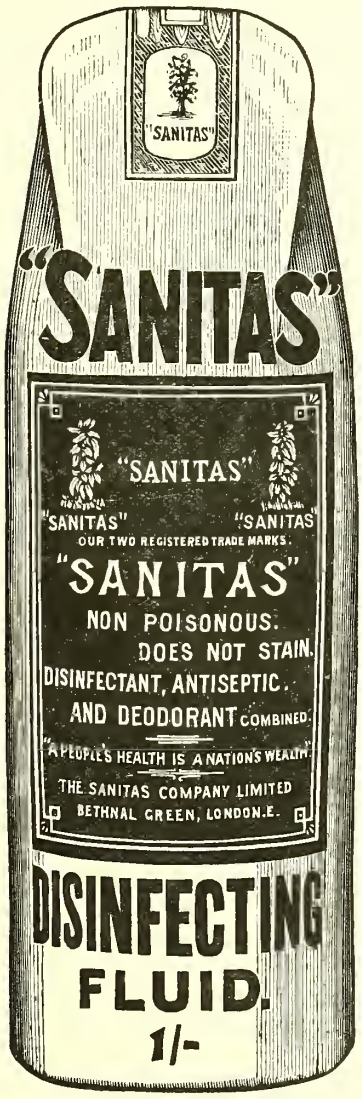
'Sanitas' DISINFECTANT SOAP
In Tri-sectional Blocks, 3d. each.
Equally valuable for toilet and cleansing purposes.

'Sanitas' TOILET SOAP
1/3 Boxes. Strongly recommended by the Medical Faculty.

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1/- each. Creamy, Perfumed, and Antiseptic. In Metal Cases.

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7-lb. and 14-lb. Boxes, 4/8 and 9/3.

'Sanitas' FAMILY SOAP
In Boxes of 3 dozen Cakes, 6/-.



'Sanitas' ANIMAL SOAP
1/- Pots, and in Bulk.

'Sanitas' EUCALYPTUS DISINFECTORS
1/- and 2/6 each.
For automatically purifying the air.

'Sanitas' INHALERS
1/- and 2/6 each.

'Sanitas' VETERINARY OINTMENT
1/- and 2/6 Tins.

'Sanitas' TOILET FLUID
1/- and 2/6 Bottles.

'Sanitas' TOOTH POWDER
1/- Boxes.

'Sanitas' TOILET POWDER
1/- Boxes

'Sanitas' POCKET DISINFECTANT
1/- Box of 12 bulbs.

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1/- Boxes.

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1/- Packets and Rolls.

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1/- Bottles, and in Bulk.

'Sanitas' DISINFECTING TABLETS
1/- Boxes of 6 Tablets.

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In 1/- Collapsible Tubes.

'Sanitas' DISINFECTING JELLY
1/- and 3/6 Pots.

'SANITAS' EMBROCATION

IN BOTTLES,

8d., 1/-, & 2/6.

KINGZETT'S (PATENT) SULPHUR FUMIGATING CANDLES

IN VARIOUS PATTERNS, 6d., 9d., & 1/- each.

"FORMIC-SULPHUGATORS" (*New Patented Invention*) ***1/- & 1/6*** *respectively.*

For Disinfection of Infected Rooms, Hospital Wards, Railway Carriages and Trucks, Bedding, Clothing, and Drapery; also for destroying Insect Pests and Vermin in Empty Rooms, Kitchens, Sculleries, Stables, Cellars, &c.

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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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Invaluable Qualities in

IODINE VASOGEN 6 and 10%

SALICYLIC ACID VASOGEN, 10%

and in the other Vasogen preparations:

Iodoform, 3% Sulphur, 3% Menthol, 2%
Creosote, 20% Guaiacol, 20%
Ichthyol, 10% Beta-Naphthol, 10%, &c.

MERCURY VASOGEN OINTMENT

33⅓ and 50%,

Prepared with inspissated Vasogen. Can be rubbed into the skin much quicker and more thoroughly than Blue Ointment.

Supplied in bulk and, for the convenience of patients, in soft capsules containing 3 and 5 grammes for inunction. Prescribe in boxes containing two dozen capsules.

Pure Vasogen is supplied in its inspissated form *(Vasogenum Ointment Base)*, as reliable liquid Vasogen preparations can only be obtained by dissolving the medicaments in liquid Vasogen during the process of manufacture.

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McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations..... 5 gr.
Aloes, Dilute (Dr. Hall Dinner Pill)..... 4 gr.
Aloes Barb.
Saponis Pulv.
Pulv. Ext. Glycyrrh.
Theriaca, āā..... 1 gr.
Aloes and Nux Vomica—
Aloes Soc. ..... 1½ gr.
Ext. Nucis Vom..... ½ gr.
Aloin ..... $\frac{1}{10}$, $\frac{1}{4}$, $\frac{1}{2}$, 1 gr.
Aloin, various combiuations.
Anti-Dyspepsia (Fothergill)—
Strychninæ ..... $\frac{1}{20}$ gr.
Pulv. Piper Nig. ..... 1½ gr.
Pulv. Ipecac..... 2-3 gr.
Ext. Gent..... 1 gr.
Arsenious Acid..... 1-20, 1-50 gr.
Asafœtida, U.S. and B.P. ..... 5 gr.
Atropine ..... 1-100, 1-300 gr.
Blue Pill, B.P. ..... 1, 2, 3, 5 gr.
Blue Pill, with Colocynth and Hyoscyam... 5 gr.
Calcium Sulphide ..... 1-10, 1-4, 1-2, 1 gr.
Calomel, Colocyn., and Hyosc..... 5 gr.
Calomel Co., B.P. ..... 5 gr.
Camphor and Hyoscyam..... 2 gr.
Camphoræ
Ext. Hyoscy., āā..... 1 gr.
Cannabis Indica ..... 1-4, 1-2 gr.
Cascara Sagrada..... 3 gr.
Cathartic Comp., U.S.P.
Ext. Jalap ..... 1 gr.
Ext. Coloc. Co..... 1 1-3 gr.
Hyd. Subchlor. ..... 1 gr.
Gambog. ..... 1-4 gr.
N.B.—The ready solubility of the "McK. & R." Pills is readily proved by takiug a dose of these.
Colocynth Comp., B.P..... 4, 5 gr.
Colocynth, other combinatious.
Copaiba Compound—
Cubebæ Pulv..... 2 gr.
Ferri Sulph. Exsic..... 1-2 gr.
Mass. Copaib. ..... 1 gr.
Tereb. Venet..... 1 1-2 gr.
Corrosive Sublimate..... 1-30, 1-20, 1-10 gr.
Croton Oil..... 1-2 gr.
Diuretic—
Ext. Buchu, Potass. Nitrat..... 1 gr.
Scillæ Pulv. ..... 1-2 gr.
Emmenagogue—
Ferr. Sulph. Exsic. ..... 1 1-2 gr.
Thus, American ..... 1 1-2 gr.
Aloes Socot. ..... 1-2 gr.
Ergotin ..... 3 gr.
N.B.—Each Pill = 30 gr. ergot or 30 mc. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
Euonymin ..... 2, 3 gr.
Iodoform and Iodoform with Iron..... 1 gr.
Ipecac. ..... 1-4, 5 gr.
Ipecac. Co. ..... 5 gr.
Ipecac. and Squill, B.P. ..... 5 gr.
Iron Pill, B.P. Add. ..... 3, 5 gr.
Iron Arseniate..... 1-8 gr.
Iron reduced by Hydrogen (Quevenne).. 1, 4 gr.
Iron and Quinine Citrate..... 2 gr.
Laxative, Vegetable—
Res. Podoph.
Ext. Hyoscy.
Ext. Tarax., āā..... 1-4 gr.
Ext. Coloc. Co. ..... 1 gr.
Jalapæ
Res. Leptand. āā... ..... 1-2 gr.
Ol. Menth. Pip.
Mercury, Biniodide ..... 1-16 gr.
Mercury, Proto-iodide.... 1-20, 1-16, 1-8, 1-4 gr.
N.B.—Made from the absolutely pure *yellow* impalpable powder, free from mercury and from biniodide.
So-called "green" proto-iodide contains uncombined mercury.
Mercury with Chalk ..... 1 gr.
Morphine Muriate .... 1-8, 1-4 gr.
Nitro-Glycerine..... 1-200, 1-100, 1-50 gr.
Opium ..... 1 gr.
Opium and Camphor..... 1 gr.
Opii Pulv..... 1 gr.
Camphoræ ..... 2 gr.
Pepsin, Pure .... 1 gr.
Phosphorus .... 1-100, 1-50, 1-30 gr.
N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medicament.
Phosphorus and Iron—
Phosphor. Pur. ..... 1-50 gr.
Ferr. Redact. ..... 2 gr.
Phosphorus, Iron, and Quinine—
Phosphor. Pur. ..... 1-100 gr.
Ferri Carb. ..... 1 gr.
Quininæ Sulph. ..... 1 gr.
Phosphorus and Nux Vomica—
Phosphor. Pur. ..... 1-50 gr.
Ext. Nucis Vom..... 1-4 gr
Phosphorus and Quinine—
Phosphor. Pur. ..... 1-50 gr.
Quininæ Sulph. .... 1 gr.
Phosphorus and Valerianate of Zinc—
Phosphor. Pur. ..... 1-50 gr.
Zinci Valer. ..... 1 gr.
Picrotoxin .... 1-80 gr.
Podophyllin .... 1-8, 1-4, 1-2 gr.
Quinine, Bisulphate .... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine, Sulphate .... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine Co. (Anti-Malarial).
Largely prescribed in America with excellent results.
Rhubarb Comp., B.P. ..... 5 gr.
Rhubarb with Blue Pill ..... 5 gr.
Salicylic Acid ..... 2, 5 gr.
Soap Comp., B.P. .... 5 gr.
Squill Comp., B.P. ..... 5 gr.
Strophanthus ..... 1-20, 1-4 gr.
Strychnine .... 1-50 gr.
Tonic Laxative (Fothergill)—
Quininæ Sulph. .. .. 2-3 gr.
Strychn. .... 1-30 gr.
Ferri Redact.
Ext. Bellad., āā .... 1-4 gr.
Valerianates, Iron, Quinine, and Zinc.
Warburg's Tiacture and the same without Aloes. Each Pill = 1 fl. drm. of the Tincture.
Zinc Phosphide ..... 1-4, 1-2 gr.
Zinc Valerianate .... 1 gr.

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Good for Galenicals.

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A Fine Scale Pepsin is now being put on the market by Messrs. Randall & Son, of Southampton. The pepsin appears to be prepared by an aseptic method, for it is devoid of the peptonic odour which characterises many commercial pepsins and is evidence of the presence of membranous matter. The pepsin occurs in pale yellow translucent scales, and dissolves readily in cold water, forming an almost odourless solution. We find its digestive power to be fully that required by the Pharmacopœia, and it will be observed from the other characters of the pepsin that it is especially suitable for the preparation of liquor pepsini and vinum pepsini.

The Chemist and Druggist, July 14, 1900.

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SIMON'S CREAM & SOAP.

Compare the Prices of

these high-class flexible

CAPSULES

with those which you now pay,

and write for complete list.

	Per 1,000	Boxes of 36 per doz	Boxes of 24 per doz.
Cascara Sagrada = 30 m fl. Ext.	10/-	6/6	4/7
Copaiba, mv	5/-	3/9	2/6
,, mx	7/3	5/-	3/9
Creasote (Beechwood in almond oil) mi ...	7/6	5/-	3/9
,, ,, ,, ,, mii	8/6	5/11	4/1
Ammoniated Quinine = 30m Tinct. ...	12/6	8/-	5/7
Santalwood Oil, mv	18/-	11/-	7/7
,, ,, mx	24/-	14/-	10/-
Syr. Eastonii = 30 m	16/-	10/-	7/-

WILCOX, JOZEAU & CO., 49 HAYMARKET, S.W.

TRADE MARK 'PEPULE' BRAND OF

DIGESTIVE PRODUCTS.

Messrs. FAIRCHILD BROS. & FOSTER beg to announce that the 'Fairchild' Digestive Products which Messrs. BURROUGHS WELLCOME & CO. have heretofore put up and issued under their registered trade mark brand 'Tabloid' will hereafter be put up by Messrs. FAIRCHILD BROS. & FOSTER under their registered trade mark brand 'Pepule.' These 'Pepule' Brand Products will be supplied to the trade by Messrs. BURROUGHS WELLCOME & CO. as agents.

'Pepule' Pepsin, gr. 1 and gr. 3.

Gr. 1, bottles of 25 and 100, 6*s.* and 16*s.* per doz.
Gr. 3, " " " 10*s.* and 27*s.* "

'Pepule' 'Zymine,' gr. 3.

Bottles of 25 and 100, 12*s.* and 36*s.* per doz.

'Pepule' 'Zymine' Compound.

Each contains—

'Zymine'	gr. 2
Bismuth Subnitrate	gr. 3
Powd. Ipecacuanha	gr. 1/10

Bottles of 25 and 100, 12*s.* and 36*s.* per doz.

These Prices are subject to B. W. & Co.'s terms.

N.B. The words 'Fairchild,' 'Zymine,' and 'Pepule' are trade mark brands which indicate that products supplied under these brands are manufactured by Fairchild Bros. & Foster.

Originated and Manufactured by

Fairchild Bros. & Foster,

NEW YORK.

Agents for Europe, Asia, Africa, and Australasia:

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FORMULÆ.

CREAM EMULSION of COD-LIVER OIL

With Hypophosphites.

Each fluid ounce contains:—
Finest Cod liver Oil, ℥ss.
Hypophosphite of Calcium, gr. iii.
" Sodium, gr. ii.
(Testing 50 per cent. Cod-liver Oil.)

EMULSION of PURE PETROLEUM

With Hypophosphites.

Each fluid ounce contains:—
Chemically Pure Petroleum, ℥ss.
Hypophosphite of Calcium, gr. iii.
" Sodium, gr. ii.
(Testing 50 per cent. Pure Petroleum.)

These Emulsions are of the very highest character and do not separate.
Supplied in Bulk, also in Bottles of various styles and sizes for Retail sale.

WHOLESALE QUOTATIONS ON APPLICATION.

HORNCASTLE

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IMPORTANT NOTICE.—To secure Patients against Fraud every bottle bears the British Government Stamp, with the words DR. LALOR'S PHOSPHODYNE, London, England, engraved thereon, by order of her Majesty's Honourable Commissioners. *If not, it is a Forgery.*

DR. LALOR'S

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For over FORTY YEARS has maintained its world-wide reputation as

THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces.

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HAS THE LARGEST SALE OF ANY PHOSPHORIC MEDICINE IN THE WORLD.

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THOUSANDS of unimpeachable Testimonials from all parts of the World. No other Phosphoric Preparation has received such exalted praise and distinguished recognition.

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MANUFACTURED ONLY AT

DR. LALOR'S PHOSPHODYNE LABORATORY

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CHEMISTS enclosing Trade Card will be supplied free with a neat Showcard.

100 YEARS' REPUTATION.

Awarded Certificate of Merit.

KEARSLEY'S

Original Widow Welch's Pills

UNIVERSALLY ACKNOWLEDGED TO BE THE GENUINE.

RETAILERS MAY SAFELY RECOMMEND THEM.

The Original Widow Welch's
FEMALE PILLS.
Prepared by C. & G. KEARSLEY,
Of 17, North Street, Westminster.
Price 1*s.* 1½*d.* & 2*s.* 9*d. Stamp Duty included*

FAC-SIMILE OF LABEL.

Prices to the Trade:—13½d. .. 9/6 per doz. 2/9 .. 23/- per doz.
13 to the dozen of the 2/9 size.

Minimum Re-selling Prices:—13½d. .. 1/-. 2/9 .. 2/6.

LIVING PROFITS GUARANTEED.

The Retailer knows that KEARSLEY'S are THE GENUINE, and we trust the Trade will explain this to all Customers who ask for Cheaper Imitations.

Special Quotations to Shippers and for large quantities by application to C. & G. Kearsley.

Supplied in BOTTLES for EXPORT, 13 to doz. 2/9 size, same terms as Boxes.

UNLESS SO PACKED WE CANNOT BE RESPONSIBLE.

N.B.—Chemists can have attractive Show Card, also Hand Bills, sent free by application to C. & G. Kearsley, 17 North Street, Westminster. Chemists in the Colonies through their Wholesale House.

The following is extracted from a "Chemist and Druggist" leading article which appeared May 23rd, 1896, entitled:—

"ON IMITATING A SPECIALITY."

"The way of the imitator is hard; he can never be sure when he gets there. Chlorodyne was invented by Dr. Collis Browne in 1848, and after an eight years' trial of it in India Dr. Browne came home in 1856, and by Mr. J. T. Davenport's assistance the compound was soon familiar to the medical profession and the public in England, and ere long it became known the world over. Straightway imitations of it commenced.

* * * * * * * * * *
* * * * * * * * * *

But Mr. Davenport's policy from the first has been to keep silence amidst the multitude of guesses made respecting the composition of this speciality, and that this was the best policy will be evident to anyone who glances at the table of nineteen formulæ which we subjoin.

* * * * * * * * * *
* * * * * * * * * *

It is but fair to add on behalf of some of the formulators that they have been careful to say that their products are not attempts at imitation, but something like it, or a substitute, and that it is still the rule in British pharmacy to give Dr. Collis Browne's article when 'Chlorodyne' is ordered in prescriptions—a very common-sense rule in view of diversity of opinion amongst authorities."

Dr. J. COLLIS BROWNE'S

CHLORODYNE.

This preparation does not contain any poison which is included in Part I, Schedule A, of the Poisons Act; therefore the signature of the purchaser is NOT required.

Chemists who study their own reputations should never be thoughtless enough to sell an imitation Chlorodyne. Any first-class, old-established Chemist will tell you that Dr. Browne's preparation is the only genuine Chlorodyne. [1]

Sole Manufacturer—**J. T. DAVENPORT,** 33 Great Russell Street, London, W.C.

QUININE. IMPERIAL BRAND.

IMPERIAL QUININE CO.

IMPERIAL WORKS,
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SHIPPING ORDERS in every kind of Package (as required) receive special attention.

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Preparations of the British & other Pharmacopœias, B.P.C., and Hospital Formulæ, Standardised and Tested.

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WRITE FOR NEW PRICE LIST. CLOSE QUOTATIONS FOR LARGE BUYERS.

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"PREMIER" EXTRACT OF MALT AND COMBINATIONS.

IMPROVED FLEXIBLE GELATIN CAPSULES.

Pharmaceutical Preparations of Guaranteed Purity and Strength.
Standardised Tinctures, Liquid and Solid Extracts, B.P. 1898.
All B.P. and B.P.C. Preparations.

THE LEADING LINE IN PATENTS.

QUICKEST SALES.

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May now be had in £5 Lots, at Lowest Prices, Carriage Paid. Packages Free.

ORDERS must be accompanied by Cash. Cheques to be made payable to Thomas Beecham, and crossed "Parr's Bank, Limited, St. Helens."

	PER DOZ. NET.
PRICES.—Beecham's Pills, 9½d. size (36 pills)—	— 7/-
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2s. 9d. „ (168 „)—	— 25/-
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ADVERTISING MATTER to suit Retailers' requirements will be sent on application.

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Pulmonary Consumption

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For COUGHS, CATARRH, ASTHMA, CHRONIC BRONCHITIS, &c.

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WITH INSCRIPTIONS IN ANY DESIRED TINT.

"Beautifully made, and the inscriptions give them a distinction all their own."—*C. & D.*

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These Cachets are especially adapted for Headache, Neuralgia, and other Powders.

COOPER & CO.

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In Nine Sizes. Also made to fit existing machines.



SUGAR COATED PILLS

Composed of the Purest Drugs.
Leading Varieties at Lowest Prices.
SUPERIOR TO PEARL COATING.
CATARRH SNEEZE SNUFF in Tubes, on Cards, or Boxes, 8/- per gross.
Speciality:
PRIVATE RECIPES.
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Send Business Card for Samples and Price List.

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THOMAS TYRER & CO., LIMITED,

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GRANULAR & EFFERVESCENT & SCALE PREPARATIONS,

ELEGANT AND SOLUBLE.

LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

We invite the Trade to apply for the Agency for

LOSALL'S

CHALYBEATE SULPHUR

(Registered) **SALT.**



Put up in enamelled Tins, yellow ground and black lettering.

An Unique and Capital Selling Line.

A sure preventive of BILIOUSNESS, RHEUMATISM, ECZEMA, and all Blood and Skin Diseases.

Retailed at face value, 6d. and 1/- Tins, and in Family Bottles 1 6 each.

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SELLS READILY.

Neat Enamelled Metal Show Cards and also Large Posters supplied gratis.

Leaves a clear Net Profit of over 70% on Lowest Net Trade Prices, 3/6 and 7/- dozen in Tins, and 10/6 dozen in Bottles, and is easier to sell and more satisfactory to push than ordinary Health Salts, because of its superior Medicinal Properties.

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GELATINE CAPSULES (1,500 Varieties).

CASCARA CAPSULES. EASTON SYRUP CAPSULES.

GREGORY POWDER CAPSULES. [2]

BLAUD PILL CAPSULES.

We guarantee our One, Two, and Three Pill Capsules to be equal respectively in Ferrous Carbonate to one, two, and three freshly-prepared Blaud Pills. They have also this distinct advantage over Pills, that they neither oxidise nor harden.

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Private Formulæ made up and coated.

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Beg to inform their friends and the Trade generally that, being Sole Proprietors of the Business of

BARRON SQUIRE & CO., BUSH LANE,

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they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

SPECIMENS OF THESE PREPARATIONS have REMAINED in the MUSEUM of KEW GARDENS during 28 YEARS WITHOUT DETERIORATION.

"SWEET" PEARL COATED PILLS.

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ANIMAL EXTRACTS.

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Prepared from the fresh Articular Cartilages and Synovial Membranes of healthy animals. In Bottles, 3s., 5s. 6d., and 10s.

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Bottles of Tincture, 2s. 6d.
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Price, in Bottles, 3s. and 5s.

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Fluid Extract, 2s. 6d. per Bottle.
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THYROIDINE.

Containing the active principle of the Thyroid Glands of the sheep; 4 grains equal to about one-eighth of a fresh gland. Also PILLS and TABLETS, each containing a dose of Thyroidine.
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ESTABLISHED 1751.

Leaflets descriptive of above and List of Drugs and Pharmaceutical Preparations on application.

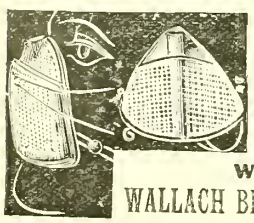
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THE LIGHTEST AND BEST ON THE MARKET.

Weight **ONE** Ounce.

WALLACH BROS., 57 GRACECHURCH ST., LONDON, E.C. AND AT Glasgow.

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BRADLEY & BOURDAS'S

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For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

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Every Travelling Trunk and Household ought to contain a Bottle of

ENO'S 'FRUIT SALT'



It prevents any over-acid state of the blood, and should be kept in every bedroom and Traveller's bag in readiness for any emergency.

It ALWAYS does GOOD—NEVER any HARM. It forms a DELIGHTFUL, INVIGORATING, COOLING, SOOTHING, and HEALTH-GIVING beverage. It acts as simply, yet just as powerfully, on the animal system as sunshine does on the vegetable world, and REMOVES BY NATURAL MEANS, without hazardous force, all fœtid or POISONOUS MATTER. It is IMPOSSIBLE to OVERSTATE its GREAT VALUE in HEALTH or DISEASE.

The effect of ENO'S 'FRUIT SALT' upon any DISORDERED, SLEEPLESS, and FEVERISH condition is simply MARVELLOUS. It is, in fact, NATURE'S OWN REMEDY, and an UNSURPASSED ONE.

CAUTION.—*See Capsule marked ENO'S 'FRUIT SALT.' Without it you have a WORTHLESS imitation.*

TO RETAILERS.—Show Cards, Dummies, and Counter Bills will be supplied on application either direct or through the Wholesale Houses, on our receiving a post-card stating requirements.

Prepared only by J. C. ENO, Ltd., 'Fruit Salt' Works, LONDON, S.E., by J. C. Eno's Patent.

NOTICE. SEVERAL INSTANCES having been recently discovered of the INFRINGEMENT of our rights by the use of the title 'FRUIT SALT,' or of colourable imitations of our well-known wrapper, all persons are hereby WARNED against similar infringements.

OUR RIGHTS have been established by decisions of the House of Lords and other Courts, and perpetual Injunctions and damages have been obtained against offenders.

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FEBRILINE—a SYRUP of QUININE.

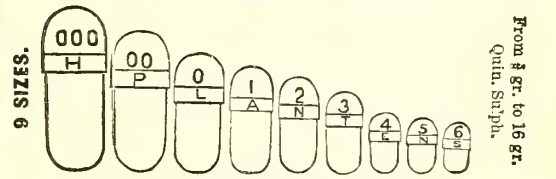
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For the administration of Powder, Solid, or Liquid Medicines.
FOR POWDERS OR SOLIDS.



EMPTY FOR LIQUIDS (FLEXIBLE),
and also Capsules for
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OILS. Neatsfoot, Lard, Animal, Olive, Cooking, Castor, Cod, Sperm, Cocoanut, Palm, etc.
Water White Mineral Oil, free from Sulphur (Paraffinum Liquidum B.P.)
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PETROLEUM JELLY "Ceratine" White or Yellow, Plain or Scented.
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Benzine rect.

QUITE SAFE

when securely packed



in small size bottles.

3D. SIZE

THREEPENNY, 2/6 doz. **SIXPENNY,** 4/- doz.

There is no danger in holding stock by the Retail Chemist if the total volume of Benzine does not exceed 3 gallons, and is securely packed.

AND SHILLING SIZES.

8/- doz.

Danger lies in keeping broken bulk. To meet the conditions of safety we have put on the market 1-oz. bottles.

2/6 per doz.

PRINCE ALBERT'S CACHOUX.



These Cachoux are supplied only in Brass Boxes.

No. 4s at 3/6 doz.
No. 5s at 4/- doz.

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NEW FOURPENNY SIZE.

Three dozen boxes will be forwarded, together with Six dozen sample packets, to Chemists, post paid, for 8/6.

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CHINESE DIAMOND CEMENT,

FOR MENDING EVERY ARTICLE OF ORNAMENT OR FURNITURE, CHINA, GLASS, EARTHENWARE.

REGISTERED.



6d. size 3/6 PER DOZ. 1/- size 7/- PER DOZ.

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ROUND, OVAL, SQUARE, or FOLDING, for the

DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.

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PATRIOTIC SOOTHERS.

Every soother has a **Union Jack** attached to it.

1*d.* Line ... ... 8/- gross.
2*d.* „ ... ... 15/- „
2*d.* Line, 16/- gross, with photos of Generals attached to the cord as a button.
3*d.* Line, with Silk Flag, 1 doz. very elaborate card, representing various regiments, 2/- doz.

FLORAL DAINTIES.

The "Cachou" par excellence. Highly concentrated, small, dainty. Put up in tubes, 3 doz. on a card and 18 on a card, 8/- gross.

Also in silver slide boxes, blocked, 3 tubes in a box, 2/9 doz. boxes, Violet, Heliotrope, Rose, Lavender, Wallflower, and Lily, for high-class trade.





WHITECROSS LEMONADE.

"Just like Home-made."

1*d.* packets ... ... 8/- gross.
½-lb. Lever tins, decorated ... 2/6 doz.
½-lb. „ „ ... 4/- „
1-lb. „ „ ... 7/- „

Elaborate tins, in several colours.

INSECT POWDER.

3*d.* Line, filled, 1/10; 6*d.*, 3/6.

In smartly decorated tins, with inner dredgers.

X 18 Tins, empty, 6/6; X 18L, large, 10/- gross.

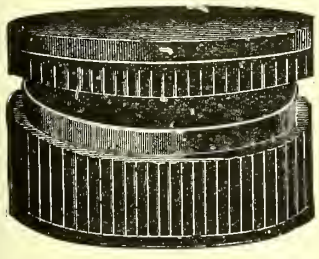


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SHIRLEY BROTHERS, Whitecross Works, Rockingham Street, Newington Causeway, S E.

"STIPENDUM" CORK STOPPERS IN ALL SIZES.



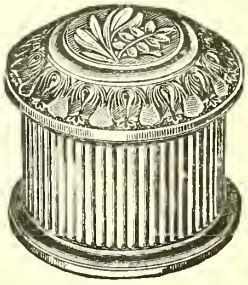
"STIPENDUM" Puff Boxes,

Artistically decorated in various effects.

"STIPENDUM" GREASE-PROOF COVERED POTS,

In Terra Cotta, Chocolate, and Black.

These Grease-proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.



To be had of all Druggists' Sundriesmen. Wholesale only of

THE "STIPENDUM" STOPPER CO., LIM., 47 LAMB'S CONDUIT STREET, W.C.

SOMETHING NEW AND SALEABLE.

AUSTIN & CO.

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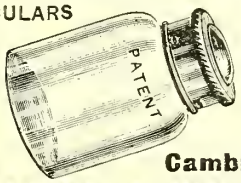
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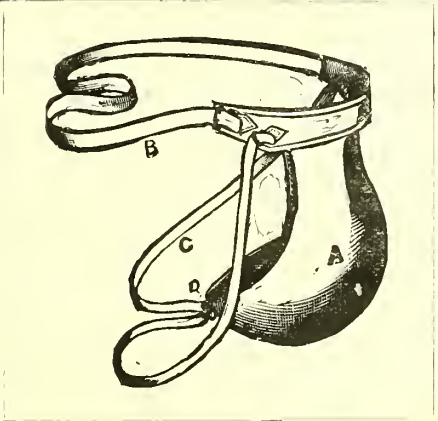
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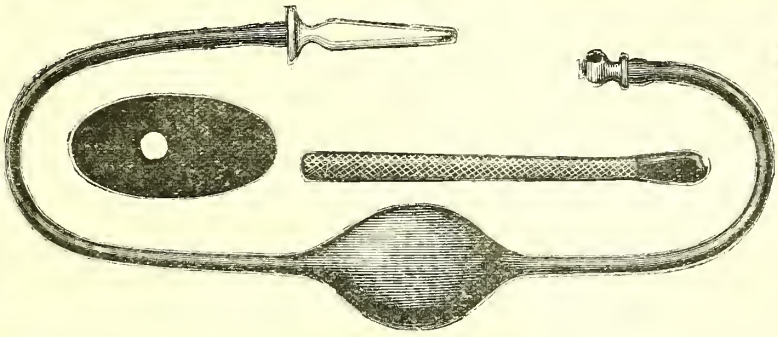
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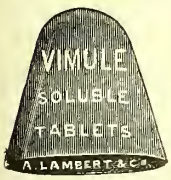
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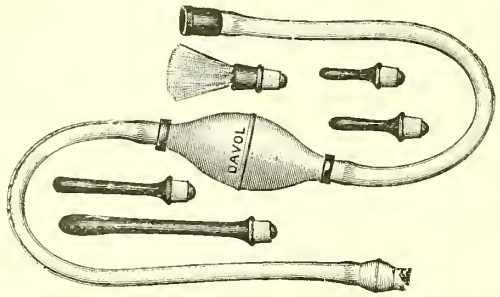
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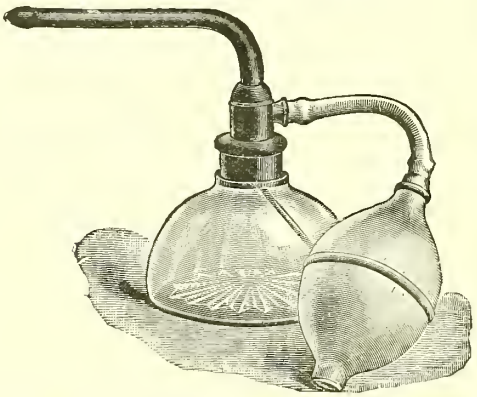
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Salicylic ... ... ,,	4	2 4	2 7	2 10
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MAJORS, 10; MINORS, 96.	MAJORS, 3; MINORS, 36.

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There will also be a short practical course and revision class for advanced students intending to present themselves in October.

RESULTS, July, 1900—MAJOR, 3; MINOR, 24.
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Short Advanced Course for October Examination, Fee £5.
Monday, September 3.
Four Months' Course for January Exam., Fee £10 10s.
Monday, October 1.
Three Months' Course, £8 8s. Six Months', £12 12s.
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The **Evening Course** recommences on **September 3rd.**

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Pharmaceutical Chemist.

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Prospectus, &c., on application.

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James Crawford, Stirling
Matthew Crowden Carruthers, Buckie
Gilbert Dyet, Stonehouse
James Leonard Evans, Coatbridge
William White Flett, Glasgow
William Charles Hogg Garvie, Glasgow
Robert Graham, Kirkintilloch
James Muir Hall, Lanark
George Hicks, Rothesay
Helen Robb, Glasgow
James Paton Young, Airdrie
Alexander Young, Glasgow

The Short Autumn Session commenced August 13th, 190
The Winter Session commences October 1st, 1900.
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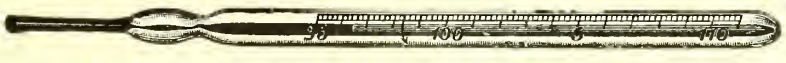
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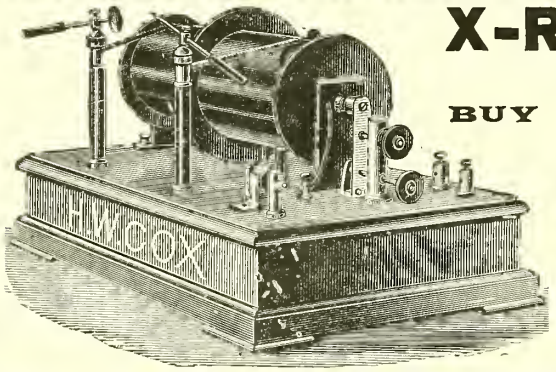
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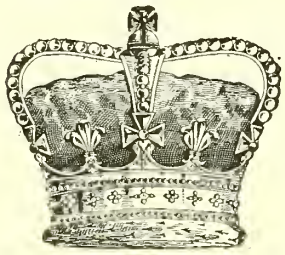
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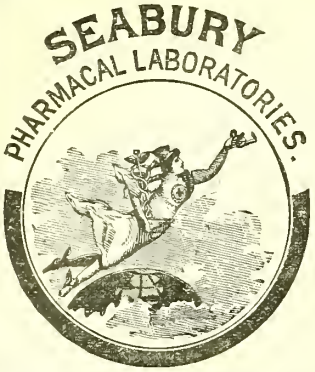
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Report of "THE LANCET," December 3, 1898.

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Report of "THE HOSPITAL," October 21, 1899.

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Extract from "THE CHEMIST & DRUGGIST," November 18, 1899.

In commenting upon "Weak Belladonna Plasters," page 830, the following advice is given :—

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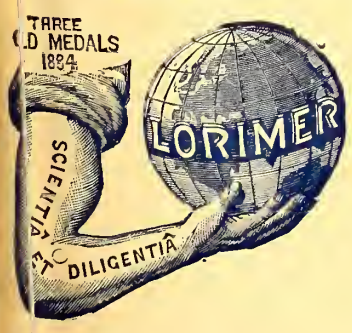
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11 Avenue de la Bourdonnais,
PARIS, 18 August, 1900.

Dear Sirs,

AWARDS to EXHIBITORS.

I have the pleasure of informing you that the International Jury have awarded you a

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Yours faithfully,
HERBERT JEKYLL,
Secretary of the Royal Commission.

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Printed by Spottiswoode & Co., New-street Square: and Published at the Office, 42 Cannon Street, in the City of London.—*August* 25, 1900.